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ANNUAL REPORT
OF
The Boston City Hospital
BOSTON, MASS.



1918 - 19

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1918-19



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FIFTY-FIFTH ANNUAL REPORT
OF
THE TRUSTEES
OF
THE BOSTON CITY HOSPITAL
INCLUDING THE
REPORT OF THE SUPERINTENDENT
UPON THE
HOSPITAL PROPER
THE SOUTH DEPARTMENT FOR INFECTIOUS DISEASES
THE HAYMARKET SQUARE RELIEF STATION
THE EAST BOSTON RELIEF STATION
THE CONVALESCENT HOME AT DORCHESTER
THE WEST DEPARTMENT
AND ALSO THE
HOUSE RULES, WITH RULES FOR ADMISSION, DISCHARGE
AND GOVERNMENT OF PATIENTS, ETC.
FOR THE FIFTY-FIFTH YEAR
FEBRUARY 1, 1918, TO JANUARY 31, 1919, INCLUSIVE



CITY OF BOSTON
PRINTING DEPARTMENT

1919

6359.17

City Hospital
Sep 19 1909



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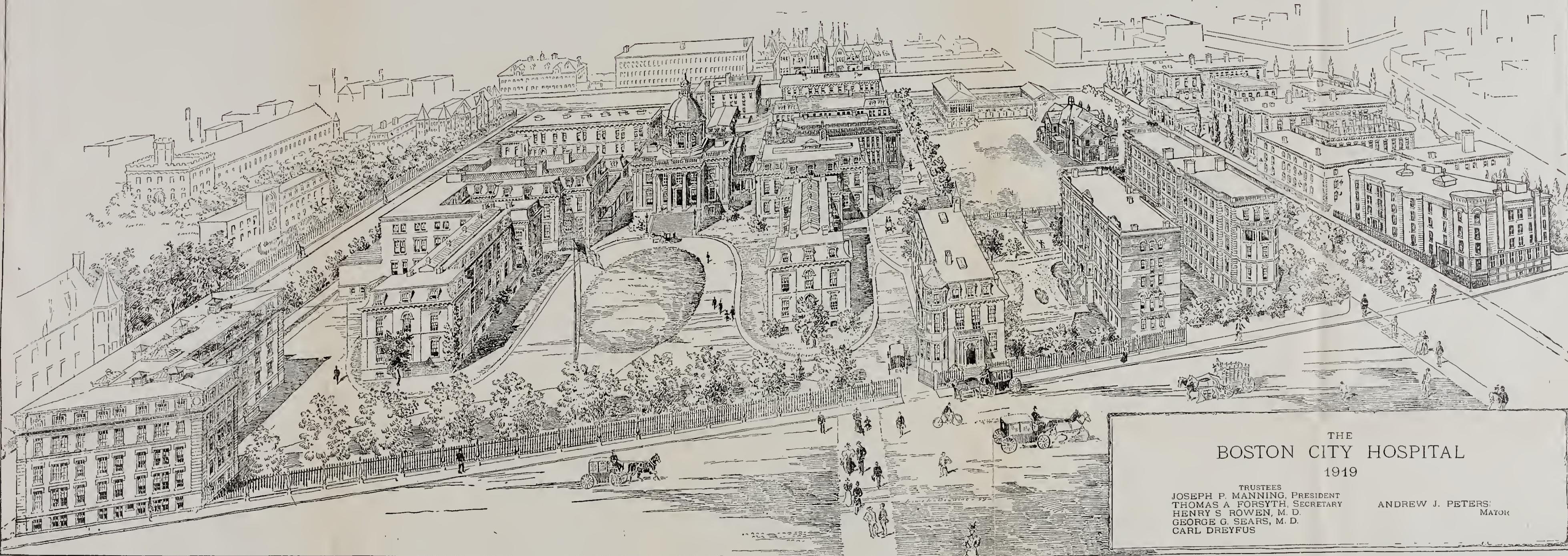
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THE
BOSTON CITY HOSPITAL
1919

TRUSTEES
JOSEPH P. MANNING, PRESIDENT
THOMAS A. FORSYTH, SECRETARY
HENRY S. ROWEN, M. D.
GEORGE G. SEARS, M. D.
CARL DREYFUS

ANDREW J. PETERS,
MAYOR

FIFTY-FIFTH ANNUAL REPORT

OF THE

TRUSTEES

OF

THE BOSTON CITY HOSPITAL

WITH

REPORT OF THE SUPERINTENDENT

THE HOUSE RULES, WITH RULES FOR ADMISSION, DISCHARGE AND GOVERNMENT OF PATIENTS, ETC.

FOR THE

FIFTY-FIFTH YEAR, FEBRUARY 1, 1918, TO
JANUARY 31, 1919, INCLUSIVE.

TRUSTEES.

JOSEPH P. MANNING, <i>President</i>	.	.	Term expires in 1921.
THOMAS A. FORSYTH, <i>Secretary</i>	.	.	Term expires in 1919.
HENRY S. ROWEN, M. D.	.	.	Term expires in 1922.
GEORGE G. SEARS, M. D.	.	.	Term expires in 1923.
CARL DREYFUS	.	.	Term expires in 1920.

MEDICAL AND SURGICAL STAFF.

Consulting Physicians and Surgeons.

Edward H. Bradford, M. D.	Francis S. Watson, M. D.
Vincent Y. Bowditch, M. D.	Thos. Amory DeBlois, M. D.
Abner Post, M. D.	George H. Monks, M. D.
Hayward W. Cushing, M. D.	Morton Prince, M. D.
Elliott P. Joslin, M. D.	

Consulting Pathologist.

William T. Councilman, M. D.

Consultant in Tropical Diseases.

Richard P. Strong, M. D.

Curator of the Hospital Museum.

Abner Post, M. D.

Superintendent and Medical Director.

John J. Dowling, M. D.

Senior Physicians.

G. B. Shattuck, M. D.	|	Francis H. Williams, M. D.
-----------------------	--	----------------------------

Visiting Physicians.

Henry Jackson, M. D.	|	Wm. H. Robey, Jr., M. D.
George G. Sears, M. D.	|	Ralph C. Larrabee, M. D.
John L. Ames, M. D.	|	Franklin W. White, M. D.

First Assistant Visiting Physicians.

Edwin A. Locke, M. D.	|	Edward N. Libby, M. D.
		Francis W. Palfrey, M. D.

Second Assistant Visiting Physicians.

Cadis Phipps, M. D.	|	Harold Bowditch, M. D.
Harold W. Dana, M. D.	|	Martin J. English, M. D.
Thomas J. O'Brien, M. D.	|	William R. Ohler, M. D.
Albert A. Hornor, M. D.	|	Edmund F. Walsh, M. D.
		Roland A. Behrman, M. D.

Assistant to the Visiting Physicians.

* Joseph M. Lynch, M. D.	|	† Harry A. Nissen, M. D.
		‡ Joseph E. Hallisey, M. D.

Senior Surgeon.

George W. Gay, M. D.

* Appointed for six months beginning December 20, 1918.

† Appointed for six months beginning January 25, 1919.

‡ Appointed for six months beginning January 1, 1919.

Surgeons-in-Chief.

Paul Thorndike, M. D.	|	Fred B. Lund, M. D.
John Bapst Blake, M. D.	|	Edward H. Nichols, M. D.
		Howard A. Lothrop, M. D.

Visiting Surgeons.

Frederic J. Cotton, M. D.	|	Joshua C. Hubbard, M. D.
William E. Faulkner, M. D.	|	David D. Scannell, M. D.
		Horace Binney, M. D.

First Assistant Visiting Surgeons.

J. H. Cunningham, Jr., M. D.	|	Halsey B. Loder, M. D.
Frank H. Lahey, M. D.	|	Irving J. Walker, M. D.
		Arthur R. Kimpton, M. D.

Out-Patient Surgeons.

Robert C. Cochrane, M. D.	|	Somers Fraser, M. D.
Otto J. Hermann, M. D.	|	Francis F. Henderson, M. D.
		Herbert H. Howard, M. D.

Assistants to the Out-Patient Surgeons.

MacIver Woody, M. D.	|	James J. Hepburn, M. D.
----------------------	--	-------------------------

Temporary Assistants to the Out-Patient Surgeons.

* Augustus Riley, M. D.	|	† Arthur C. Pearce, M. D.
-------------------------	--	---------------------------

Anæsthetists.

John E. Butler, M. D.	|	Nathaniel N. Morse, M. D.
Frank L. Richardson, M. D.	|	Lincoln F. Sise, M. D.

Dentist-in-Chief.

Stephen P. Mallett, D. M. D.

Assistant Dentist-in-Chief.

William H. Canavan, D. M. D.

Visiting Dentists.

Harold A. Carnes, D. M. D.	|	George W. Whichelow, D. M. D.
		Thomas Hennessey, D. M. D.

* Appointed for six months beginning December 20, 1918.

Appointed for six months beginning November 29, 1918.

Senior Surgeon for Diseases of Women.

Charles M. Green, M. D.

Junior Visiting Surgeon for Diseases of Women.

Ernest B. Young, M. D.

First Assistant Visiting Surgeon for Diseases of Women.

Nathaniel R. Mason, M. D.

Second Assistant Visiting Surgeon for Diseases of Women.

Robert M. Green, M. D.

Third Assistant Visiting Surgeon for Diseases of Women.

John T. Williams, M. D. | Frederick L. Good, M. D.

Fourth Assistant Visiting Surgeon for Diseases of Women.

Leo V. Friedman, M. D.

Temporary Assistant to the Surgeons for Diseases of Women.

* Joseph P. Cohen, M. D.

Ophthalmic Surgeons.

Allen Greenwood, M. D. | Edward R. Williams, M. D.
Henry B. Stevens, M. D.

Assistants to the Ophthalmic Surgeons.

Frederick N. Stephens, M. D. | Jeremiah J. Corbett, M. D.
L. Colby Rood, M. D.

Senior Surgeon for Diseases of Ear and Throat.

George A. Leland, M. D.

Surgeons for Diseases of Ear and Throat.

Rockwell A. Coffin, M. D. | Charles R. C. Borden, M. D.
George L. Vogel, M. D.

Assistant Surgeons for Diseases of Ear and Throat.

Henry Tolman, Jr., M. D.	|	Louis M. Freedman, M. D.
John H. Blodgett, M. D.	|	Robert J. Kissock, M. D.
		William T. Haley, M. D.

* Appointed for duration of war.

Visiting Physicians for Diseases of the Nervous System.

Philip Coombs Knapp, M. D. | John J. Thomas, M. D.
Arthur W. Fairbanks, M. D.

First Assistant Visiting Physicians for Diseases of the Nervous System.

Isador H. Coriat, M. D. | William J. Daly, M. D.

Second Assistant Visiting Physicians for Diseases of the Nervous System.

LeRoy A. Luce, M. D. | Earle H. MacMichael, M. D.

Physician for Physical Therapeutics.

Frank B. Granger, M. D.

Assistant to the Physician for Physical Therapeutics.

* Robert E. Bonney, M. D.

Physician for Diseases of the Skin.

Townsend W. Thorndike, M. D.

Assistants to the Physician for Diseases of the Skin.

William P. Boardman, M. D. | † M. C. von Groll, M. D.

Pathologist.

F. B. Mallory, M. D.

Physician for Infectious Diseases.

Edwin H. Place, M. D.

Physician for X-Ray Service.

Samuel W. Ellsworth, M. D.

* For duration of war.

† For six months beginning January 25, 1919.

Acting Physician for X-Ray Service.

Paul F. Butler, M. D.

Acting Assistant Physician for X-Ray Service.

Ester M. E. Sundelöf, M. D.

Consultant in Vaccine and Serum Therapy.

George P. Sanborn, M. D.

Physicians to the Convalescent Home.

John P. Treanor, M. D.	|	Henry F. R. Watts, M. D.
		Bradford Kent, M. D.

HOUSE OFFICERS.

The following-named House Officers have completed service during the year:

Morris Hoffman, M. D., Medical Service . . .	12 months.
Warren M. Pettengill, M. D., Medical Service . . .	13 months.
Louis F. Curran, M. D., Medical Service . . .	12 months.
Benjamin W. Rudman, M. D., Medical Service . . .	14 months.
Jacob E. Banquer, M. D., Medical Service . . .	13 months.
Benjamin D. Paul, M. D., Medical Service . . .	13 months.
Alexander S. Macmillan, M. D., Medical Service,	12 months.
Louis J. Grandison, M. D., Medical Service . . .	14 months.
Harry Goldman, M. D., Medical Service . . .	15 months.
James H. Root, M. D., Medical Service . . .	9 months.
Arnold B. Kauffman, M. D., Medical Service . . .	9 months.
Harold C. Tooker, M. D., Medical Service . . .	13 months.
Douglas H. Nisbet, M. D., Medical Service . . .	12 months.
Hyman Saphirstein, M. D., Medical Service . . .	7 months.
George E. Rönne, M. D., Medical Service . . .	11 months.
Wallace H. Drake, M. D., Medical Service . . .	9 months.
Ray Thomas McDonald, M. D., Medical Service,	9 months.
Harold Van Gaasbeek, M. D., Medical Service . . .	14 months.

Herman Lande, M. D., Medical Service	12 months.
Alfred C. Callister, M. D., Surgical Service	11 months.
Edward A. Duffy, M. D., Surgical Service	12 months.
James J. Putnam, M. D., Surgical Service	5 months.
Hugh F. Lena, M. D., Surgical Service	20 months.
Robert Slater, M. D., Surgical Service	16 months.
William B. Young, M. D., Surgical Service	14 months.
James B. Moloney, M. D., Surgical Service	13 months.
Rufus W. Long, M. D., Surgical Service	13 months.
Charles F. Wilcox, Jr., M. D., Surgical Service	12 months.
Armin Klein, M. D., Surgical Service	12 months.
John R. Marshall, M. D., Surgical Service	16 months.
Nathan Rosenberg, M. D., Surgical Service	12 months.
James Holmes, M. D., Surgical Service	11 months.
Llewellyn H. Rockwell, M. D., Surgical Service	9 months.
James S. Johnston, M. D., Surgical Service	10 months.
Donald S. Adams, M. D., Surgical Service	12 months.
Louis Strahlmann, M. D., Surgical Service	15 months.
Patrick E. Gear, Surgical Service	2 months.
Edward S. Sullivan, Surgical Service	12 months.
Harry E. Mason, M. D., Surgical Service	12 months.
Albert S. Hyman, M. D., Surgical Service	10 months.
Ralph M. Johnson, M. D., Surgical Service	11 months.
Ahbrum M. Goldman, M. D., Gynæcological Service	9 months.
Abraham S. Troupin, M. D., Gynæcological Service	9 months.
Pierce J. Dunphy, M. D., Gynæcological Service, Joseph M. Kuder, M. D., Gynæcological Service, Max M. Goldberg, M. D., Ophthalmic and Aural Service	12 months.
Edward J. Monahan, M. D., Ophthalmic and Aural Service	8 months.
William F. Regan, M. D., Ophthalmic and Aural Service	13 months.
Walter V. Twombley, Neurological Service	8 months.
Alwin H. Cranz, M. D., Neurological Service	5 months.
William De Murault, Neurological Service	6 months.
John J. Dunphy, Neurological Service	5 months.
Robert N. Nye, Pathological Service	8 months.
Fletcher H. Colby, M. D., Pathological Service	2 months.
	3 months.

HOUSE OFFICERS ON DUTY.

(February 1, 1919.)

MEDICAL SERVICE.

House Physicians.

Walter J. Mullen.

Joseph Resnik.

Jeffrey J. Walsh.

James B. Shields.

Senior Medical Internes.

John J. Dunphy, Jr.

Leonard P. Landry.

Warren N. Tilton.

Lee H. Hill.

Medical Externes.

Carl E. Barstow.

Carleton W. Bullard.

Naaman Steinberg.

Charles W. Blackett, Jr.

Junior Medical Internes.

Dwight O'Hara.

Ernest A. Mandeville.

William A. Mahoney.

SURGICAL SERVICE.

House Surgeons.

Charles C. Morrison, Jr.

Walter C. Harris.

Harold Q. Gallupe.

Senior Surgical Internes.

George S. Wickham.

Joseph P. Mulhern.

Robert A. Milliken.

Surgical Externes.

Ralph P. Mahoney.

Harry Penn.

Myron A. Strammer.

Accident Floor House Officers.

Morton F. Frost.

Edward B. Ormsby.

John J. Lucy.

Junior Surgical Internes.

John H. Gordon.

Russell F. Sullivan.

GYNÆCOLOGICAL AND OBSTETRICAL SERVICE.

House Surgeon.

Robert Slater.

Senior Interne.

Edward H. Dennen.

Junior Interne.

Carmi R. Alden.

Surgical Dresser.

Donald C. McGill.

OPHTHALMIC AND AURAL SERVICE.

House Surgeon, Aural Service.

Joseph C. Macdonald.

HOUSE SURGEON, OPHTHALMIC SERVICE, AND INTERNE, AURAL SERVICE.

Albert B. Murphy.

Externe.

Philip E. A. Sheridan.

NEUROLOGICAL SERVICE.

House Physician.

Walter M. Raleigh.

Senior Interne.

Newman Cohen.

Externe.

Stephen M. Smith.

PATHOLOGICAL SERVICE.

Senior Interne.

Thomas K. Richards.

Junior Internes.

Alfred M. Goodale.

Joe Vincent Meigs.

HOSPITAL OFFICERS.

John J. Dowling, M. D., *Superintendent and Medical Director.*Edmund W. Wilson, M. D., *Acting Superintendent and Medical Director.*James W. Manary, M. D., *Acting Assistant Superintendent.*John A. Foley, M. D., *Acting First Executive Assistant.*Alfred C. Callister, M. D., *Resident Surgeon.*Francis S. Brodrick, M. D., *Acting Second Executive Assistant.*Lawrence A. Betteridge, M. D., *Night Executive Assistant.*William B. Young, M. D., *Acting Third Executive Assistant.*

Harold Q. Gallupe, M. D., *Resident Anæsthetist.*
 F. B. Mallory, M. D., *Pathologist.*
 S. Burt Wolbach, M. D., *Assistant Pathologist.*
 Frederick Parker, Jr., M. D., *Second Assistant Pathologist.*
 Thomas K. Richards, M. D., *Assistant in Pathology.*
 Alfred M. Goodale, M. D., *Assistant in Pathology.*
 Samuel W. Ellsworth, M. D., *Physician for X-Ray Service.*
 Paul F. Butler, M. D., *Acting Physician for X-Ray Service.*
 Ester M. E. Sundelöf, M. D., *Acting Assistant Physician for X-Ray Service.*
 John Ferrin, *Chief Apothecary.*
 Miss Leonie M. Corcoran, *Registrar.*
 Miss Emma M. Nichols, *Superintendent of Nurses and Matron.*
 Miss Mary Alice McMahon, *Acting Superintendent of Nurses and Matron.*
 Miss Margaret J. Fallon, *Acting First Assistant Superintendent of Nurses.*
 Miss Eliza S. Williams, *Acting Second Assistant Superintendent of Nurses.*
 Miss Frances E. Morley, *Instructor of Nurses.*
 Miss Rosa E. Doyle, *Instructor of Probationers.*
 Miss Ettie O. Owen, *Night Supervisor of Nurses.*
 Miss Mary A. Douglass, *Assistant Matron.*
 Miss Lydia C. Lee, *Chief Dietitian.*

SOUTH DEPARTMENT.

John J. Dowling, M. D., *Medical Director.*
 Edwin H. Place, M. D., *Physician-in-Chief.*
 Edward J. Monahan, M. D., *Assistant Physician.*
 Jesse M. David, M. D., *Assistant Physician.*
 Wallace H. Drake, M. D., *Assistant Physician.*
 Miss Ursula C. Noyes, *Assistant Superintendent of Nurses and Matron.*

House Officers.

(February 1, 1919.)

Seth F. H. Howes.	|	Nicholas Iovanna.
		Edward F. Shay.

HAYMARKET SQUARE RELIEF STATION.

John G. Breslin, M. D., *Resident Surgeon.*
 Bernard F. Devine, M. D., *Assistant Resident Surgeon.*
 Miss Rose F. Moran, *Matron.*

House Officers.

(February 1, 1919.)

Adam C. Williamson. | Francis J. Nash.
Joseph H. McLaughlin.

EAST BOSTON RELIEF STATION.

George E. Allen, M. D., *Resident Surgeon.*
G. Lynde Gately, M. D., *Assistant Resident Surgeon.*

CONVALESCENT HOME.

Miss Elizabeth C. Fairbank, *Matron.*

REPORT OF THE TRUSTEES.

BOSTON, February 1, 1919.

HON. ANDREW J. PETERS,
Mayor of the City of Boston:

SIR,— In compliance with the ordinances, the trustees of the Boston City Hospital present the following report of its condition for the year ending January 31, 1919. This is the fifty-fifth annual report of the Hospital Department, which consists of the main hospital, the South Department for infectious diseases, the Haymarket Square Relief Station, the East Boston Relief Station and the Convalescent Home in Dorchester.

The Board of Trustees was organized on May 6, 1918, by the election of Mr. A. Shuman as president and Mr. Joseph P. Manning as secretary.

President Abraham Shuman passed away in June. Expressions of sorrow from the Board of Trustees are recorded on another page.

In March, Dr. George G. Sears was appointed to the Board of Trustees for the remainder of the term ending April 30, 1918, and he was later appointed for the term ending April 30, 1923.

In July, Mr. Joseph P. Manning was elected president of the Trustees for the remainder of the term ending May 4, 1919, and Mr. Thomas A. Forsyth was elected secretary of the Board for the same term.

In October, Mr. Carl Dreyfus was appointed a member of the Board of Trustees for the term ending April 30, 1920.

EXPENDITURES.

The entire expenditures for all departments of the hospital for maintenance during the fiscal year were \$974,374.69. Of the amount spent for mainte-

nance, \$381,412 was expended upon personal service (see Table No. 1); \$38,211.29 upon service other than personal; \$72,720 upon equipment; \$459,014.07 upon supplies; \$22,660.07 upon materials; \$357.26 upon special items, such as workingmen's compensation.

From the amount expended, \$974,374.69, there should be deducted the difference in the amount of stock on hand February 1, 1919, which was \$10,577 more than on January 31, 1918, making the total amount properly chargeable as the expenditures for maintenance of all departments for the year \$963,797.69. By deducting \$104,258.09 (the carefully estimated cost of the various out-patient departments) we get \$859,539.60 as the gross cost of all ward patients. This sum was expended for 42,538 weeks' board of patients, at a cost per capita of \$20.21 per week, or \$2.88 $\frac{5}{7}$ per day.

If we deduct the money collected for paying patients, interest on trust funds and other income, the net cost to the city per capita per week was \$15.88, or \$2.26 $\frac{6}{7}$ per day.

The cost of subsistence supplies was \$229,498.53, the total weeks' board for an average of 1,487.6 persons was 77,567. This gives a cost per person for uncooked food supplies of \$2.96 per week, or 42 $\frac{2}{7}$ cents per day.

PAYING PATIENTS.

During the year there has been collected for the care and treatment of patients of all classes the sum of \$168,555.14, itemized as follows: There was received from the Commonwealth of Massachusetts for the board of patients at the hospital proper \$47,259.35; at the South Department, \$2,119.72; from various cities and towns for hospital proper, \$11,739.36; collected at the superintendent's office, on account of private room, ward and Out-Patient Department paying patients, \$67,534.41, of which \$15,017.31 was from insurance cases; for board of paying patients at the South Department, \$12,812.89; on account of ward and Out-Patient Department paying patients at the Haymarket Square

Relief Station, \$2,005.79, of which \$1,019.38 was from insurance cases; on account of ward and Out-Patient Department paying patients at the East Boston Relief Station, \$751.51, \$562.24 of this being from insurance cases. There has also been collected for the hospital, by the Health Department, for the care of infectious cases at the South Department, and paid to the City Collector, the additional sum of \$24,332.11.

The following is a tabular statement of the income from paying patients:

FEBRUARY 1, 1918, TO JANUARY 31, 1919, INCLUSIVE.

	Hospital Proper.	South Department.	Haymarket Square Relief Station.	East Boston Relief Station.	Totals.
Collected at the hospital:					
From the state	\$47,259 35	\$2,119 72	.....	.....	\$49,379 07
From cities and towns...	11,739 36	.....	.....	.....	11,739 36
From ward and private room patients	52,517 10	12,812 89	\$986 41	\$189 27	66,505 67
From insurance cases:					
House cases, including X-ray cases and record fees.....	12,595 81	.....	287 88	56 74	12,940 43
Out-patient cases.....	2,421 50	.....	731 50	505 50	3,658 50
Totals.....	\$126,533 12	\$14,932 61	\$2,005 79	\$751 51	\$144,223 03
Collected by Health Department for contagious cases.....	.....	24,332 11	.....	.....	24,332 11
Totals.....	\$126,533 12	\$39,264 72	\$2,005 79	\$751 51	\$168,555 14

The revenue was increased \$14,899.90 by X-ray charges, salvarsan treatment, removal of tonsils and adenoids, issuing of certificates, circumcision and payment of nurses' board.

A table showing the revenue received from paying patients, interest on trust funds, sale of old material and other sources, will be found on page 62 of the superintendent's report.

Early in 1918 many of the Hospital Staff began to leave for war service and the record of the hospital in this respect is one to be proud of. The following members of the Visiting and Resident Staff entered the Medical Corps, United States Army.

John J. Dowling, M. D., Superintendent and Medical Director.

Edward H. Nichols, M. D., Surgeon-in-Chief.

Fred B. Lund, M. D., Surgeon-in-Chief.

Frederic J. Cotton, M. D., Visiting Surgeon.

Allen Greenwood, M. D., Ophthalmic Surgeon.

William H. Robey, Jr., M. D., Visiting Physician.

David D. Scannell, M. D., Visiting Surgeon.

Francis W. Palfrey, M. D., First Assistant Visiting Physician.

Samuel W. Ellsworth, M. D., Physician for X-ray service.

Horace Binney, M. D., Visiting Surgeon.

Earle H. MacMichael, M. D., Second Assistant Visiting Physician for Diseases of the Nervous System.

William R. Ohler, M. D., Assistant in Clinical Pathology.

Martin J. English, M. D., Second Assistant Visiting Physician.

F. Howard Lahey, M. D., First Assistant Visiting Surgeon.

Harold W. Dana, M. D., Second Assistant Visiting Physician.

Albert A. Hornor, M. D., Second Assistant Visiting Physician.

Roland A. Behrman, M. D., Second Assistant Visiting Physician.

Robert C. Cochrane, M. D., Out-Patient Surgeon.

Somers Fraser, M. D., Out-Patient Surgeon.

Richard P. Strong, M. D., Consultant in Tropical Diseases.

Joshua C. Hubbard, M. D., Visiting Surgeon.

MacIver Woody, M. D., Assistant to Out-Patient Surgeons.

John J. Thomas, M. D., Visiting Physician for Diseases of the Nervous System.

Elliott P. Joslin, M. D., Consulting Physician.

Frank G. Norbury, M. D., Second Assistant in Pathology.

Nathaniel R. Mason, M. D., First Assistant Visiting Surgeon for Diseases of Women.

William R. Morrison, M. D., Temporary Assistant to Out-Patient Surgeons.

Frank B. Berry, M. D., Second Assistant in Pathology.

Henry B. Stevens, M. D., Ophthalmic Surgeon.

William E. Faulkner, M. D., Visiting Surgeon.

Rockwell A. Coffin, M. D., Surgeon for Diseases of Ear and Throat.

Alexander S. Macmillan, M. D., Assistant Physician for X-ray service.

William B. Young, M. D., Executive Assistant.

Lincoln F. Sise, M. D., Anæsthetist.

Robert J. Kissock, M. D., Assistant Surgeon for Diseases of Ear and Throat.

George P. Howe, M. D., Assistant to the Physician for Diseases of the Skin.

Edgar M. Medlar, M. D., Second Assistant Pathologist.

Roy U. Gardner, M. D., Research Assistant in Pathology.

William P. Boardman, M. D., Assistant to the Physician for Diseases of the Skin.

LeRoi G. Crandon, M. D., former Visiting Surgeon.

Horace Gray, M. D., former Second Assistant Visiting Physician.

Stephen P. Mallett, D. M. D., Dentist-in-Chief.

Frank B. Granger, M. D., Physician for Physical Therapeutics.

Wilbert C. Hardy, M. D., Temporary Assistant to Out-Patient Surgeons.

Hiram Amiral, M. D., Assistant Physician at South Department.

Carl B. Hudson, M. D., Resident Surgeon at East Boston Relief Station.

Robert B. Hunt, M. D., Assistant Physician at South Department.

George W. Papen, M. D., Assistant Resident Surgeon at East Boston Relief Station.

Harold V. Carnes, D. M. D., Visiting Dentist.

John H. Cauley, M. D., Executive Assistant.

Carl Bearse, M. D., Assistant Physician at South Department.

Joseph H. Shortell, M. D., Resident Surgeon.

Albert C. Cormier, D. M. D., Former Visiting Dentist.

Ernest B. Young, M. D., Junior Visiting Surgeon for Diseases of Women.

Leroy A. Luce, M. D., Second Assistant Visiting Physician for Diseases of the Nervous System.

G. Lynde Gately, M. D., Assistant Resident Surgeon at East Boston Relief Station.

Frederick Parker, Jr., M. D., Second Assistant Pathologist.

Henry Jackson, M. D., Visiting Physician.

Joseph M. Lynch, M. D., Temporary Assistant to the Visiting Physicians.

Henry F. R. Watts, M. D., Physician to the Convalescent Home.

Arthur W. Fairbanks, M. D., Visiting Physician for Diseases of the Nervous System.

John P. Treanor, M. D., Physician to the Convalescent Home.

Edward J. Monahan, M. D., Assistant Physician at the South Department.

George L. Vogel, M. D., Surgeon for Diseases of Ear and Throat.

Louis J. Ullian, M. D., interne.

Lewis W. Johnson, M. D., interne.

Howard E. Settle, M. D., interne.

Cassell C. Tucker, M. D., interne.

Max Silverman, M. D., interne.

Guy M. Parkhurst, M. D., interne.

Jacob Applebaum, M. D., interne.

Maurice T. Briggs, M. D., interne.

John Duff, Jr., M. D., interne.

Paul R. Withington, M. D., interne.

Paul Withington, M. D., interne.

Clarence H. Hyman, M. D., interne.

Carl T. Harris, M. D., interne.

Walter R. Loewe, M. D., interne.

Abraham Haskins, M. D., interne.

Reuben L. Leverton, M. D., interne.

Louis J. Grandison, M. D., interne.

Avery H. Sarno, M. D., interne.

Jacob E. Banquer, M. D., interne.

Warren M. Pettengill, M. D., interne.

Andrew Nichols, M. D., interne.

Edward A. Duffy, M. D., interne.

Launcelot C. Goffin, M. D., interne.

Frank W. Hodgdon, M. D., interne.

Harris E. Powers, M. D., interne.

Frederick R. Brown, M. D., interne.

- Howard Osgood, M. D., interne.
Benjamin W. Rudman, M. D., interne.
George Corea, M. D., interne.
George Kramer, M. D., interne.
Louis Strahlmann, M. D., interne.
James J. Putnam, M. D., interne.
Morris Hoffman, M. D., interne.
James S. Johnston, M. D., interne.
Wallace H. Drake, M. D., interne.
Harry C. Mason, M. D., interne.
James B. Moloney, M. D., interne.
Harry Goldman, M. D., interne.
Benjamin D. Paul, M. D., interne.
Herman Lande, M. D., interne.
Armin Klein, M. D., interne.
John R. Marshall, M. D., interne.
Harold C. Tooker, M. D., interne.
D. Heath Nisbet, M. D., interne.
Max M. Goldberg, M. D., interne.
Ralph M. Johnson, M. D., interne.
Harold Q. Gallupe, M. D., interne.
Charles Morrison, M. D., interne.
John J. Dunphy, M. D., interne.
Arnold B. Kauffman, M. D., interne
William F. Regan, M. D., interne.
Rufus W. Long, M. D., interne.
Hugh F. Lena, M. D., interne.
Donald S. Adams, M. D., interne.
Ahbrum M. Goldman, M. D., interne.
Edward S. Sullivan, M. D., interne.
Manuel F. Cunha, M. D., interne.
Albert S. Hyman, M. D., interne.
Walter C. Harris, M. D., interne.
Nathan Rosenberg, M. D., interne.
Joseph M. Kuder, M. D., interne.
James H. Root, M. D., interne.
Llewellyn H. Rockwell, M. D., interne.
Pierce J. Dunphy, M. D., interne.
George E. Rönne, M. D., interne.
Robert N. Nye, M. D., interne.
Fletcher H. Colby, M. D., interne.
Walter J. Mullen, M. D., interne.

Joseph C. Macdonald, M. D., interne.
James B. Shields, M. D., interne.
Alwin H. Cranz, M. D., interne.
Hyman Saphirstein, M. D., interne.
Alfred M. Goodale, M. D., interne.

The following nurses also volunteered and have been serving as army nurses, mostly all connected with Base Hospital No. 7:

Emma M. Nichols, Superintendent of Nurses and Matron.
Della M. Currier, Night Supervisor of Nurses.
Ellen C. Daley, Day Supervisor of Nurses at South Department.
Emma G. Cunningham, Matron at East Boston Relief Station.
Rose M. Foster, Acting Matron at East Boston Relief Station.
Katherine Beaton, nurse.
Etta M. Dwyer, nurse.
Katherine G. Fitzgibbon, nurse.
Katherine V. Golden, nurse.
Myrtle Rix, nurse.
Marion Parsons, nurse.
Ronello Sleep, nurse.
Donna G. Burgar, nurse.
Julia E. Gertz, nurse.
Addie M. Moses, nurse.
Mary F. Cullen, nurse.
Evelyn Ellis, nurse.
Harriet B. Delamere, nurse.
Etta M. Pratt, nurse.
Margaret E. Crockstad, nurse.

Eighty-four male nurses and employees served in various branches of the military service.

Base Hospital No. 7, formed at the Boston City Hospital with Dr. John J. Dowling, Superintendent, as its director, was mobilized in February at Camp Devens, and after preliminary training left for France in July, where it was located at Tours. It took over a plant of

3,000 beds and great praise has been given for its efficient handling of numerous convoys of wounded troops.

In July the hospital received the first convoy of returned wounded soldiers, who remained but a short time before being reassigned to army hospitals.

In August we received another and larger convoy. Wards W and X were turned over entirely for the treatment of these soldiers. They were cared for to the great satisfaction of the military authorities of the North-eastern Department. Altogether over seven hundred sick and injured soldiers and sailors have been cared for at the Boston City Hospital during the war.

In November, the West Department was turned over to the War Department as a part of United States General Hospital No. 10, and returned wounded soldiers are being cared for there.

Early in the summer of 1918 the hospital was asked by the Medical Department of the First Naval District to form a training school for Hospital Apprentices. This was done and about two hundred twenty-five men graduated. These men were offered a six weeks' intensive course of theoretical and practical work in the care of patients. The work was completed early in November.

EPIDEMIC OF SPANISH INFLUENZA.

Early in September the first patients suffering from the so-called influenza epidemic were received. During September and the greater part of October the hospital capacity and personnel were taxed to the utmost. For a short time, about the latter part of October and first of November, the epidemic apparently was about to disappear, but the second wave commenced about November 10, and progressively increased until the first week in January, when evidence of its subsiding again occurred.

Since September 3 approximately 2,300 cases have been treated with about 675 deaths. Many of the internes and nursing staff became ill. Ward X was turned over entirely for the accommodation of sick

nurses, eighty nurses and twenty physicians being ill at one time. It is with great regret that we record the death of nine nurses and two physicians of our staff, also four employees. Too much cannot be said for the heroism of our physicians and nurses who, despite depleted numbers owing to the war, worked on under conditions beyond description.

WARD BUILDINGS E AND A.

The reconstruction of Ward Buildings E and A, made necessary by the fire which occurred in April, 1917, was completed October 1, 1918.

The old Ward Buildings E and A contained but one ward each, this ward being divided into rooms and two small wards, with dormitories for employees on the floor above. In the reconstruction of these buildings all partitions have been removed and large open wards have been made. The dormitories above have been made over into open wards also. The hospital has thus gained, by this reconstruction, two new wards. Both buildings are fireproof, are provided with elevators and each has a sun parlor at one end. Two lavatories have been installed in each ward, this arrangement saving many steps for the nurses.

X-RAY DEPARTMENT.

The X-ray clinic is showing a healthy and normal increase each month. During the past year we were handicapped at times in obtaining supplies because of the war, but are now experiencing no further difficulties.

We have discarded the use of gas tubes entirely and are now using Coolidge tubes only; our technic with them has improved greatly and we are obtaining much better and more uniform results. During the coming year we hope to install a bedside unit, such as the army has perfected, and in that way examine in the wards the cases which cannot be safely transported to the department.

Our teaching facilities have improved greatly, especially in the fluoroscopic study of fractures and other cases. Our aim is to develop still further along this line, as we find the students and staff receptive and enthusiastic.

At Haymarket Square and East Boston Relief Stations we now have experienced operators, thus giving these stations quick diagnoses, especially in their fracture cases. The great advantage of this can be readily seen.

Appended are the figures indicating the amount of work done:

Number of dental films	1,416
Number of gastro-intestinal examinations	866
Number of patients examined	12,999
Number of X-ray treatments	324
Number of negatives taken	26,640
Total attendance of patients	12,999
Total ward patients treated and examined	4,872
Total out-patients treated and examined	8,127

DEPARTMENT FOR VACCINE AND THERAPY.

The Department of Vaccine and Serum Therapy has had under treatment 408 patients.

Protective inoculation against typhoid and paratyphoid was administered to 131 people. Protective inoculation against lobar pneumonia was administered to 20 individuals. Protective antirabic treatment was administered to 7 cases.

The number of curative vaccine inoculations administered was 1,279; protective typhoid and paratyphoid inoculations, 391; protective inoculations against lobar pneumonia, 60.

The number of diarsenol injections was 644; intradural salvarsanized serum injections, 219; mercury injections, 159; blood and spinal fluid specimens taken for Wassermann tests, 511. The total number of patients to whom protective or curative treatment was administered was 559; the total number of visits to out-patient clinic, 2,757.

The laboratory prepared the following sera for treatment: 219 Swift-Ellis salvarsanized sera, 19 salvarsanized sera for intraventricular injection. The number of doses of convalescent sera prepared for treatment of influenza pneumonia was 40. This department has been prepared to carry out the preparation of convalescent serum for treatment of influenza pneumonia since November when a few cases were treated. The work was actually started about January 1, 1919.

The number of doses of antirabic vaccine prepared was 147.

The laboratory work in addition has consisted of bacteriological diagnosis, preparation of vaccines and antigens for diagnosis and treatment and a supply of solutions necessary for preparation of diarsenol. During the year research, soon to be published, was carried on dealing with protective inoculation against lobar pneumonia in addition to the routine work. Since June 1 this department has had the services of a paid technical assistant. The need of a house officer to carry out various technical procedures and of a permanently employed bacteriologist on salary have been emphasized in previous reports and constitute its greatest need at present.

PATHOLOGICAL LABORATORY.

Owing to the war the Pathological Laboratory had lost all its force before the middle of the summer. Five trained medical men and three young women technical assistants all went into the service. It was necessary to start with new material and build from the ground up.

Doctor Mallory was fortunate in obtaining two fourth-year medical students, T. K. Richards and A. M. Goodale, to each of whom was given the double position of an internship and an assistantship. Three recent graduates from the Girls' High School were selected and given intensive training in technical work. In addition Doctor Mallory was able to utilize his own technical

assistant at the Medical School by having her work at the hospital laboratory for about three months. It was also possible to have two of the younger students assist in part of the routine work for most of the summer. Late in the year another fourth year student was obtained. In this way it was possible to keep the laboratory routine running without a break at any time, although on one occasion Doctor Mallory was the only person available to examine the diphtheria cultures.

The prospects for the future seem good. Dr. Frederick Parker, Jr., the former first assistant, who was stationed in New Haven as an instructor in the Yale Army Laboratory School, has returned, and Dr. F. B. Berry, who has been with the Laboratory Unit No 5 in France, expects to return home in about two months. Dr. E. M. Medlar, who has been teaching in the Army Medical School in Washington, has been appointed pathologist at the Rhode Island Hospital. Doctor Mallory hopes to have Dr. F. G. Norbury, who is with the City Hospital Unit, return to the laboratory.

Dr. Henry F. Sears, who was pathologist here twenty-six years ago, joined us about the middle of the summer and assisted in the routine laboratory work until the armistice was signed. He and his wife have each given Doctor Mallory a thousand dollars towards the further investigation of scarlet fever and measles, a line of work in which they are much interested.

It has been impossible to finish any research work for publication although a certain amount has been done. Doctor Mallory's chief concern has been to keep the laboratory in good running order until the former assistants could return to duty, and this has been done.

WORK OF THE PATHOLOGICAL LABORATORY FOR THE YEAR.

Autopsies	74
Surgical diagnoses	1,394
Clinical bacteriology (positive)	661
Clinical bacteriology (negative)	375

Blood cultures (positive)	* 27
Blood cultures (negative)	* 80
Guinea pig tuberculosis	38
Bacillus diphtheria (South Department) (total)	† 18,496
Bacillus diphtheria (South Department) (positive)	† 1,976
Wassermann reactions (total)	‡ 5,225
Wassermann reactions (positive)	‡ 1,125

DENTAL SERVICE.

The work in the Department of Dentistry includes surgical extractions of teeth, treatment of fractures of the jaw, alveolar abscesses, with curettage and treatment. The following figures represent the amount of work accomplished during the past year:

Total number of patients worked on	162
Fractures treated	21
Teeth extracted	351
Abscesses and curettage	25
General anaesthetics (gas and ether) administered,	41
Local anaesthetics (novocain) administered	31
After treatment, fractures, etc.	47
Consultations with other departments	31

OUT-PATIENT DEPARTMENT.

The Out-Patient Department statistics may be found on pages 42, 44 and 47 in the superintendent's report.

The number of patients treated in the Out-Patient Department during the past year has been 29,488. The number of visits was 112,877.

REPORT OF THE DEPARTMENT OF MEDICAL-SOCIAL WORK OF THE BOSTON CITY HOSPITAL.

As this is the first occasion in which this department presents a statement in the annual report of the trustees a few words as to the organization of the work may not be out of place.

With the consent of the trustees a committee of ladies, under the leadership of Mrs. Paul Thorndike, introduced Social Service into the hospital in October, 1914, and

* 33.7 per cent positive. † 10.6 per cent positive. ‡ 21.5 per cent positive

Miss Gertrude L. Farmer was engaged as director. This committee pledged themselves to assume the financial responsibility of the work for two years; and at the end of this time the trustees (in November, 1916) voted to ask for an appropriation for the salaries of five workers. This took effect in June, 1917.

In the same year (1917), by a vote of the trustees, the organization was made an official department of the hospital, with the above title. Owing to the fine coöperation of the trustees and other authorities of the hospital the department has made a steady growth.

Beginning with one worker our paid staff has been increased from time to time. The monthly average in 1918 was 10.6, including two clerical workers. By February 1, 1919, this number had increased to fifteen. In addition we have had, during certain months of the year, a few students in training who have come to us chiefly from the Boston School for Social Workers. In January, 1919, we began also to give medical social training to two undergraduate nurses from the Training School; they will come to us for three-month periods. We have had, in addition, the assistance of a few volunteer workers giving a proportion of their time.

Taking into consideration the size of the hospital and the limited number of workers, our plan of organization has been to deal only with more or less carefully selected groups, and to confine our work, as far as possible, to these patients.

The following are some of our statistics for the year. Under another cover we publish a more detailed report of the work which can be had on application to the department.

We have dealt this year with 1,969 patients.

Patients carried over from last year	227
Reinstated during the year	119
New Patients:	
Social record cases	938
Medical follow-up cases	685
	—
	1,623

Of the 1,742 new and reinstated patients 1,138 (65 per cent) were ward, and 499 (25 per cent) were outpatients. The remaining 105 came to us from other sources.

As in previous years we found a large percentage of these patients had been previously known to a charitable agency. Forty-five per cent of the 1,623 new patients were so recorded.

Twenty-six per cent of the 1,623 new patients were children under sixteen years of age.

One thousand six hundred thirty-seven of the new and reinstated patients came to us from the following departments or officials of the hospital.

	House.	Out-Patient Department.	Total.
Medical services, including chronic patients (other public institutions cases), adults and children.....	432	196	628
Surgical services, adults and children	223	121	344
Gynæcological and maternity services, women and children.....	139	82	221
Skin and nerve services, adults and children.....	40	69	109
Ophthalmic, nose and throat, aural services.....	3	7	10
South Department (influenza patients).....	65	.....	65
Executive.....	27	5	32
Head nurses.....	48	.....	48
Other sources within the hospital, including chaplain, settlement clerk, dresser, medical and surgical supervisors, social workers.....	161	19	180
We had also referred to us from outside the hospital.....	.....	.....	105
Totals.....	1,138	499	1,742

In order to do our work intelligently we try to consider the special social problem which each patient presents.

Among those we dealt with this year are included the following:

HOME AND FAMILY PROBLEMS:

Family and Marital Discord.

Poor Home Environment.

Broken or Abnormal Home.

Maternal Incompetence.

Paternal Irresponsibility, etc.

PROBLEMS OF CHILDREN:

Neglected, handicapped, motherless, stubborn child.

Juvenile Delinquency.

Illegitimacy, etc.

PROBLEMS OF POVERTY:

Inadequate Income.

Chronic Poverty and Physical Disablement (O. P. I. Cases),
etc.

PROBLEMS OF OCCUPATION:

Irregular, unsuitable employment.

Industrial disablement, etc.

PHYSICAL PROBLEMS:

Drug Addiction.

Intemperance.

Insanity.

Protection of the Individual and the Community, etc.

UNCLASSIFIED:

Unmarried Maternity.

"A Drifter."

Bad Heredity, etc.

Our services to the 1,623 new patients included the following:

1. Referred by us for nursing and medical care in the home	104
2. Referred to tuberculosis agencies (public 128, private 2)	130
3. Referred to public relief agency	25
4. Referred to social agencies	321
5. Referred to institutions (evening and other O. P. D. clinics, etc.)	45
6. Referred to Red Cross Civilian Relief Department	29
7. Admitted to an Almshouse Hospital	139
8. Obtained admittance to other institutions	100
9. Obtained convalescent care	75
10. Coöperated with school authorities	6
11. Home visits, instruction, medical follow-up, dentistry, etc.,	510
12. Material relief	7
13. No definite social action	132

In attempting a statistical classification of what we were able to do for the patients we have selected what seemed to be the chief service rendered. In many instances our work included several things among those listed above. No classification can show months of painstaking effort with individuals and families, or its results. Number 13 includes patients who died in the ward before plans could be carried out, those who refused

advice, also where our chief service consisted of conferences with relatives and friends who came to the hospital, ward visits, gifts of fruit, flowers, etc.

In addition to the 1,969 patients for whom we made a social record we rendered some form of definite social service to about 150 patients a month.

Our visits outside the hospital to all patients, recorded and unrecorded, numbered 5,300, to the home of patients, 4,629, to institutions and agencies, 671.

Many of these visits were in the interests of influenza patients. We could not have accomplished this number without the service rendered to us through the Women's Motor Corps of the Red Cross, and the assistance of two members of the committee who lent us the use of their cars.

(Signed) OLGA E. MONKS, *Chairman.*

Committee.

Mrs. HENRY ANDREWS. Mrs. GEORGE H. MONKS.

Mrs. EDWARD H. BRADFORD. Miss MARY MORTON.

Mrs. HERBERT L. BURRELL. Mrs. FREDERICK C. PALMER.

Mrs. CHARLES A. COOLIDGE. Mrs. CHARLES T. PARKER.

Mrs. THOMAS M. DEVLIN. Mrs. EDWARD D. PICKMAN.

Mrs. HENRY EHRLICH. Mrs. I. A. RATSHESKY.

Mrs. REID HUNT. Mrs. MILTON ROSENAU.

Mrs. COLIN W. McDONALD. Mrs. PAUL THORNDIKE.

Mrs. ERNEST B. YOUNG.

Miss GERTRUDE L. FARMER, *Director.*

SOUTH DEPARTMENT.

During the twenty-four years that the department has been in operation, 60,232 patients have been received, nearly all ill with an infectious disease.

HAYMARKET SQUARE RELIEF STATION.

This Relief Station has been in commission seventeen years. In these seventeen years, 572,873 patients have been treated. The number of patients treated during

the first year was 20,150 and during the present year, 26,409, a very great increase. These patients received 26,945 days' treatment.

EAST BOSTON RELIEF STATION.

In the ten years that the East Boston Relief Station has been in operation 133,560 patients have been treated. For the year ending January 31, 1919, 11,136 patients were treated. These patients received 25,462 days' treatment.

CONVALESCENT HOME.

The number of patients treated during the year was 362, who received 6,416 days' treatment.

CHANGES IN RULES.

The following changes were made in the rules during the year:

On recommendation of the Senior Staff, the Advisory Staff of the South Department was abolished.

The term of service of the Resident Surgeons at the Relief Stations was made one year, beginning the first of September.

As a war measure, the five Surgical Services were changed to three, beginning May 2.

The position of Resident Anæsthetist was created.

OBITUARY.

Hon. Abraham Shuman, President of the Board of Trustees since May 2, 1892, and a member of the Board since May 1, 1885, died in June. The following resolutions were passed by the trustees:

It is with a keen sense of personal loss, as well as profound sorrow, that we learn of the death of our friend and fellow trustee, Mr. Abraham Shuman.

The close of a long and useful life has come, and in passing to his rest the Boston City Hospital has lost a faithful and conscientious counsellor. A man of high executive ability,

skillful in the direction of the affairs of this great institution with which he was connected for thirty-three years, the last twenty-six of which he was President of its Board of Trustees. To his untiring zeal and earnest effort much of the success and prestige enjoyed by this hospital is due. During his long career he was foremost in the work of bringing this institution to its present high level. In 1885, on his entrance to this Board, the Hospital consisted of a group of ten buildings. At the present time this number has been increased to over fifty.

As a public spirited citizen, as a wise counsellor, as a man eminent in the business world, as a lover of humanity, happy in doing good, this community has benefited by his being a part of it, and he will be greatly missed by those who had the pleasure of close association with him and profited by his judgment and advice.

We therefore desire to express our profound sorrow at his death and to offer our tribute of respect to his memory. We extend to his bereaved family our sincere sympathy.

John George Blake, M. D., Senior Physician, passed away in March. The resolutions of the trustees upon this sad event were as follows:

It was with sincere sorrow that the trustees of the Boston City Hospital learned of the death of Dr. John G. Blake, a member of the original visiting staff, who died on the 4th instant. With his passing was consummated a life filled with honors, both from the city of his adoption and the medical profession of which he was such a distinguished member. He never severed relations with the hospital which he loved so well, from its inception until his death, since he made the first visit, and at his death was vice president of the Senior Staff and chairman of the Library Committee.

Graduating from the Harvard Medical School in the class of 1861, he was elected Visiting Physician at the Boston City Hospital in 1864, on the opening of the hospital by the city, and in 1891, vice president of the staff. He was appointed to the position of Senior Physician in 1900.

He possessed a keen sense of humor, and was a delightful companion, kindly, courteous and generous, and the memory of his visits will be ever fragrant. Many a former house officer will remember with gratitude the lessons he taught.

It can be truthfully said that he was a many-sided man, a rare combination of the scientific knowledge of medicine and its practical application, tender and generous in his sympathies, so there is little wonder that he was beloved by his patients, both rich and poor.

Edgar Miller Holmes, M. D., Visiting Surgeon for Diseases of the Ear and Throat, lost his life by a drowning accident in September. The trustees expressed their feelings in these resolutions.

The trustees of the Boston City Hospital wish to record their deep sense of the loss which the hospital has sustained in the death of Dr. Edgar M. Holmes, Visiting Surgeon for Diseases of the Ear and Throat. At the last meeting it was

Resolved, That his ready sympathy and coöperation in the advancement of the interests of the hospital were of great benefit to the institution, and the trustees feel that his loss has removed one of its best friends. They offer this testimonial to the ability of Doctor Holmes as a surgeon, to his intelligent and persistent work in reorganizing the Aural Department, to his rare tact in dealing with patients, and to his devotion to his duties at the hospital.

One of the two gold stars on the hospital service flag is for Dr. Carl Bibb Hudson, who left the position of Resident Surgeon at the East Boston Relief Station for military service in October, 1917. It is with deep regret that we report his death of pneumonia in France.

The trustees record with deep sorrow the death, during the recent influenza epidemic, of:

Dr. OMAH P. BADGER, Assistant Physician at the South Department.

Dr. HYMAN COHEN, House Officer.

Miss IDA MAY BLANCHARD, nurse.

Miss PERLIE P. SUMNER, nurse.

Miss ELIZABETH AGNES O'CONNOR, nurse.

Miss EMILY SCOTT BERGMAN, nurse.

Miss ELLEN FRANCES GILDEA, nurse.

Mrs. MARION LOUISE WILCOX, nurse.

Miss DORIS G. JENNE, nurse.

Miss MABLE WEBSTER, nurse.

The trustees desire to extend to the families of the deceased their heartfelt sympathy in this bereavement.

While Death was taking his toll they bore their part, courageous and self-forgetful, faithfully striving to save stricken lives. The memory of such as these is more precious than rubies. Their names are written upon the honor roll of history.

MEDICAL AND SURGICAL STAFF.

The following changes occurred in the Medical and Surgical Staff:

George G. Sears, M. D., Trustee and Visiting Physician, was granted indefinite leave of absence from the Visiting Staff.

Calvin B. Faunce, Jr., M. D., Assistant Surgeon for Diseases of Ear and Throat, resigned in May, and his resignation was accepted with much regret.

Albert C. Cormier, D. M. D., Visiting Dentist, removed his office from the vicinity of Boston, and Thomas Hennessey, D. M. D., was appointed to the position of Visiting Dentist.

The following temporary appointments were made for the duration of the war:

Roy Stewart, D. M. D., Visiting Dentist; Mitchell Selib, D. M. D., Visiting Dentist; H. C. Maguire, D. M. D., Visiting Dentist; Joseph H. H. Kelley, M. D., Physician to Convalescent Home; Joseph P. Cohen, M. D., Assistant to the Surgeons for Diseases of Women.

The following temporary appointments were made for the period of six months: To the position of Second Assistant Visiting Physician: Joseph E. Hallisey, M. D., beginning June 20, 1918; Harry Goldman, M. D., beginning June 20, 1918. To the position of Assistant to the Visiting Physicians: Harry A. Nissen, M. D., beginning

July 25, 1918, also beginning January 25, 1919; Lieut. Joseph M. Lynch, beginning December 20, 1918; Joseph E. Hallisey, M. D., beginning January 1, 1919. To the position of Assistant to Out-Patient Surgeons: Francis T. Jantzen, M. D., beginning March 14, 1918; William E. Noonan, M. D., beginning April 11, 1918; Jacob B. Bruce, M. D., beginning April 11, 1918; Arthur C. Pearce, M. D., beginning November 29, 1918; Augustus Riley, M. D., beginning December 20, 1918. To the position of Assistant to the Physician for Diseases of the Nervous System: Mabel Ordway, M. D., beginning May 16, 1918. To the position of Assistant to the Physician for Physical Therapeutics: Robert E. Bonney, M. D., beginning April 11, 1918 (he remained until return of Doctor Granger); George L. Howland, M. D., beginning June 6, 1918; G. E. Perry, M. D., beginning June 6, 1918. To the position of Assistant to the Physician for Diseases of the Skin: M. C. von Groll, M. D., beginning July 25, 1918, and beginning January 26, 1919.

HOUSE OFFICERS.

Dr. Hyman Cohen, Senior Interne on the Second Medical Service, died of the influenza in September. Resolutions of the trustees upon his death are to be found on another page.

In July the trustees accepted two fellowships from Harvard Medical School. These fellowships were given to Dr. Harry Archibald Nissen and Dr. Alfred Cyril Callister, their duties being to instruct and advise internes: Doctor Nissen the Medical Internes and Doctor Callister the Surgical Internes.

The Herbert L. Burrell Ether Prize, given for administering anaesthetics in the most skillful and humane manner, was awarded to Harold Quimby Gallupe, M. D., House Surgeon on the Third Surgical Service.

The trustees desire to express their sincere appreciation of the continued interest and generous aid rendered to the hospital by his Honor the Mayor and the City

Council; of the unselfish devotion of the Medical and Surgical Staffs and their skillful care and treatment of the sick and afflicted; and of the faithful and efficient work of the Superintendent and his assistants, which has been a source of great strength and benefit to the trustees.

Respectfully submitted,

JOSEPH P. MANNING, *President.*

THOMAS A.-FORSYTH, *Secretary.*

HENRY S. ROWEN, M. D.

GEORGE G. SEARS, M. D.

CARL DREYFUS.

REPORT OF THE SUPERINTENDENT AND
MEDICAL DIRECTOR.

BOSTON CITY HOSPITAL, February 1, 1919.

To the Trustees:

GENTLEMEN,—I have the honor to present herewith the annual report of the Hospital Department for the year ending January 31, 1919.

On June 1, 1864, the Boston City Hospital was opened for the admission of patients. Since that time the number of house patients treated in the different departments has been 474,433 and the number of out-patients 1,828,821. The table on page 44 shows the number of patients who have been treated in the hospital proper and the South Department during the last ten years. The principal statistics for the year are shown on pages 46 and 47. The other tables are self-explanatory.

Patients admitted to the hospital according to services:

Medical services	5,935
Surgical services	6,686
Gynæcological and obstetrical service	1,951
Ophthalmic service	105
Aural and laryngological service	1,543
Neurological service	596
Dermatological service	57
 Total	 16,873

Number of visits of patients to the hospital for advice and treatment in the Out-Patient Departments:

Medical diseases	10,778
Surgical diseases	75,899
Diseases of the eye	6,205
Diseases of the ear and throat	8,827
 <i>Carried forward</i>	 101,709

<i>Brought forward</i>	101,709
Diseases of the skin	4,608
Diseases of women and obstetrical service	4,482
Diseases of the nervous system	1,627
X-ray treatment and examination	8,127
Physical therapeutic treatment	4,887
Vaccine and serum inoculation:	
Visits of out-patients	2,306
Visits of house officers for protective typhoid and paratyphoid inoculations	391
Visits of nurses for protective pneumococcus inoculations	60
	—
	2,757
	—
Total	128,197
Less visits counted more than once:	
In X-Ray Department	8,127
In Department of Physical Therapeutics	4,887
In Vaccine and Serum Therapy Department	2,306
	—
Total visits	112,877
	—

TABLE OF ADMISSIONS AND DEATHS FROM FEBRUARY 1, 1909, TO JANUARY 31, 1919.
Hospital Proper and South Department.

	Patients Admitted.	Patients Accidentally Injured.	Number of Out-Patients Treated.	Number of Patients in Hospital at Beginning of Year.	Number of Ward Patients Treated.	Died.	Rate of Mortality.
February 1, 1909, to January 31, 1910.....	11,074	928	39,482	828	12,502	1,327	.106
February 1, 1910, to January 31, 1911.....	13,074	1,075	40,032	786	13,859	1,483	.107
February 1, 1911, to January 31, 1912.....	13,033	1,232	38,129	744	13,777	1,611	.117
February 1, 1912, to January 31, 1913.....	14,236	1,120	42,308	779	15,015	1,699	.107
February 1, 1913, to January 31, 1914.....	15,237	1,302	47,385	933	16,170	1,696	.105
February 1, 1914, to January 31, 1915.....	10,498	1,410	43,891	803	17,391	1,671	.096
February 1, 1915, to January 31, 1916.....	18,456	1,508	39,351	949	19,405	1,700	.091
February 1, 1916, to January 31, 1917.....	19,800	1,328	35,807	935	20,735	1,885	.091
February 1, 1917, to January 31, 1918.....	20,753	2,262	34,297	859	21,012	1,948	.090
February 1, 1918, to January 31, 1919.....	19,982	4,715	29,488	929	20,911	2,434	.116

The total number of patients admitted to the wards since the opening of the hospital and South Department has been 414,041 and the number of out-patients has been 1,142,285.

HOSPITAL PROPER.

APPLICANTS EXAMINED FOR ADMISSION DURING THE YEAR.

YEAR.	Month.	Number Examined.	Number Admitted.	Number not Admitted.
1918.	February.....	1,432	1,425	7
	March.....	1,585	1,587	1
	April.....	1,609	1,581	28
	May.....	1,450	1,420	30
	June.....	1,327	1,291	36
	July.....	1,530	1,481	49
	August.....	1,408	1,369	39
	September.....	1,562	1,541	21
	October.....	1,282	1,255	27
	November.....	1,201	1,175	26
	December.....	1,297	1,274	23
	January.....	1,475	1,474	1
Totals.....		17,161	16,873	288

HOSPITAL PROPER.

PRINCIPAL STATISTICS, 1918-19.

Number of Patients.

Number of patients remaining in the hospital proper January 31, 1918	633
Admitted from February 1, 1918, to January 31, 1919, inclusive:	
Medical	5,935
Surgical	6,686
Gynæcological and obstetrical	1,951
Ophthalmic	105
Aural and laryngological	1,543
Neurological	596
Dermatological	57
	—
	16,873
Treated during the year	17,506
Discharged during the year	14,857
Died during the year	2,027
	—
	16,884
Number of patients remaining in the hospital proper January 31, 1919	
Number of births during the year	355
Number of deaths within 48 hours of admission	801
Largest number of patients in the hospital at any one time	736
Smallest number of patients in the hospital at any one time	441
Daily average number of patients	570.3
Average number of days' stay of patients	11.9
Number of weeks' treatment given in hospital	29,735
Number of days' treatment given in hospital	208,142
Number of applicants for admission to hospital	17,161
Number of applicants rejected	288

THE BOSTON CITY HOSPITAL.

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Number of visits made by out-patients	112,877
Patients carried in ambulances	5,684
Number of patients accidentally injured, admitted to the wards	1,799

Number of out-patients treated in the Out-Patient
Departments, classified according to diseases:

For medical diseases	5,216
For surgical diseases	14,987
For diseases of the eye	2,134
For diseases of the ear and throat	3,493
For diseases of the skin	1,742
For diseases of women and obstetrical service	1,220
For diseases of the nervous system	545
For X-ray and radium treatment	8,127
For vaccine and serum inoculation:	
Out-patients treated	408
Nurses and house officers receiving pro- tective typhoid and paratyphoid and pneumococcus inoculations	151
	—
Total	38,023
Less patients counted more than once:	
In X-Ray Department	8,127
In Vaccine and Serum Therapy Depart- ment	408
	—
Total number of out-patients treated	<u>29,488</u>

PRESENT CAPACITY OF THE HOSPITAL DEPARTMENT.

The schedule of beds is as follows:

Hospital proper	765
South Department	340
Haymarket Square Relief Station	24
East Boston Relief Station	10
Convalescent Home	34
	—
	<u>1,173</u>

The distribution of beds in the Main Department is as follows:

SERVICES.	WARD.			PRIVATE.		Totals.
	Males.	Females.	Children.	Males.	Females.	
Surgical.....	188	130	30	9	9	366
Medical.....	129	89	16	8	7	249
Gynæcological and obstetrical.....		54	20		3	77
Aural and laryngological....	5	5	4			14
Ophthalmic.....	5	4				9
Neurological.....	31	11				42
Dermatological.....	4	4				8
Totals.....	362	297	70	17	19	765

STATISTICS OF PATIENTS ACCORDING TO SERVICES.

February 1, 1918, to January 31, 1919, Inclusive.

SERVICES.	In Hospital February 1, 1918.	Admitted.	Discharged.	Died.	Total Discharged and Died.	In Hospital February 1, 1919.
First Surgical.....	51	2,046	1,848	165	2,013	84
Second Surgical.....	53	1,880	1,721	129	1,850	83
Third Surgical.....	57	2,033	1,879	132	2,011	79
Fourth Surgical.....	53	415	432	36	468	0
Fifth Surgical.....	50	312	327	35	362	0
First Medical.....	65	1,468	1,177	293	1,470	63
Second Medical.....	54	1,669	1,270	384	1,654	69
Third Medical.....	64	1,363	1,087	287	1,374	53
Fourth Medical.....	63	1,435	1,121	316	1,437	61
Gynæcological and Obstetrical.....	71	1,951	1,841	118	1,959	63
Ophthalmic.....	7	105	102	3	105	7
Aural and Laryngological.....	16	1,543	1,539	1	1,540	19
Neurological.....	27	596	463	125	588	35
Dermatological.....	2	57	50	3	53	6
Totals.....	633	16,873	14,857	2,027	16,884	622

RECEIPTS AND EXPENDITURES.

Receipts.

City appropriations	\$957,895 60
	15,044 39
	<u> </u>
	\$972,939 99
Interest on trust funds	2,174 00
	<u> </u>
	\$975,113 99
Deduct:	
Balance returned to city treasury	739 30
	<u> </u>
	\$974,374 69

Expenditures.

All departments of hospital	\$974,374 69
---------------------------------------	--------------

APPLICANTS NOT ADMITTED DURING THE YEAR.

February 1, 1918, to January 31, 1919, Inclusive.

	At first Rejected.	Admitted Later.	Finally Rejected.
<i>Cause of rejection:</i>			
Self-rejected or deferred	259	.....	99
Self-rejected or deferred but admitted within three days		82	
Self-rejected or deferred but admitted later		78	
State settlement	177	.....	127
State settlement but admitted within three days		29	
State settlement but admitted later		21	
For want of accommodation	107	.....	44
For want of accommodation but admitted within three days		24	
For want of accommodation but admitted later		39	
Nonresident	18	.....	10
Nonresident but admitted within three days		3	
Nonresident but admitted later		5	
For lack of sufficient information	5	.....	5
Referred to other public institutions	3	.....	3
Totals	569	281	288

RECORD OF AMBULANCE WORK.

*Transportation to the Hospital.**Trips to:*

Business center	132
North End	190
West End	274
Back Bay	197
South End	855
Roxbury	906
West Roxbury	27
Dorchester	641
South Boston	538
East Boston	411
Charlestown	324
Jamaica Plain	103
Brighton	132
Roslindale	60
Hyde Park	73
South Department	73
 Total trips in	4,936
Did not come	94
 Patients brought	<u>4,842</u>

Transportation from the Hospital.

Convalescent Home	242
Patients' homes	100
Other hospitals	248
 Trips out	590
Carried extra	252
 Patients carried	<u>842</u>

Summaries.

Total number of trips	5,526
Total patients transferred	<u>5,684</u>

*Record of Limousine Trips for Physicians and Surgeons.**In bringing.*

The physician and the surgeon	260
Number of miles the ambulances have run, as shown by odometer count, in all departments	<u>59,482</u>

CENSUS OF DAYS' BOARD OF ALL PERSONS.

February 1, 1918, to January 31, 1919, Inclusive.

	Patients.	Officers and Employees.	Total Days' Board.
Hospital proper.....	208,142	171,660	379,802
South Department.....	80,548	53,152	133,700
Haymarket Square Relief Station.....	1,712	11,539	13,251
East Boston Relief Station.....	951	5,871	6,822
Convalescent Home.....	6,416	2,975	9,391
Totals.....	297,769	245,197	542,966

DAILY AVERAGE OF PERSONS.

	Patients.	Officers and Employees.	All Persons.
Hospital proper.....	570.3	470.3	1,040.6
South Department.....	220.7	145.6	366.3
Haymarket Square Relief Station.....	4.7	31.6	36.3
East Boston Relief Station.....	2.6	16.1	18.7
Convalescent Home.....	17.5	8.2	25.7
Totals.....	815.8	671.8	1,487.6

	Hospital Proper.	South Department.	Haymarket Square Relief Station.	East Boston Relief Station.	Convalescent Home.	All Departments.
Maximum number of days' board of patients.....	736	333	15	11	33	.....
Minimum number of days' board of patients.....	441	98	0	0	6	.....
Maximum number of days' board of persons.....	1,226	479	47	27	41	1,756
Minimum number of days' board of persons.....	873	235	26	14	13	1,228

HOSPITAL PROPER.

NATIVITY OF PATIENTS ADMITTED DURING THE YEAR

Boston.....	5,896	<i>Brought forward...</i>	15,655
Other cities and towns		Wales.....	7
in Massachusetts	1,626	Lithuania.....	7
Maine.....	427	Albania.....	6
New Hampshire.....	195	Hungary.....	5
Vermont.....	135	Switzerland.....	5
Rhode Island.....	113	Bohemia.....	4
Connecticut.....	112	Asia Minor.....	3
Other states.....	1,106	Barbadoes.....	3
Ireland.....	1,948	Europe.....	3
British Provinces.....	1,201	Brazil.....	3
Russia.....	904	India.....	3
Italy.....	690	Alsace Lorraine.....	3
England.....	365	Africa.....	3
Scotland.....	131	South America.....	3
Sweden.....	123	Bulgaria.....	3
Germany.....	101	Mexico.....	2
Poland.....	80	Sicily.....	2
Greece.....	71	Azores.....	2
Austria.....	65	South Africa.....	2
British West Indies....	45	Palestine.....	2
Portugal.....	41	Egypt.....	2
Norway.....	37	Porto Rico.....	1
Finland.....	28	Australia.....	1
France.....	27	Japan.....	1
Armenia.....	25	Bavaria.....	1
Syria.....	22	San Diego.....	1
Belgium.....	21	Macedonia.....	1
Turkey...	20	At sea.....	1
Denmark.....	19	Gibralter.....	1
Holland.....	13	New Zealand.....	1
China.....	13	Damascus.....	1
Spain.....	12	Greenland.....	1
Cape Verde Islands....	12	Central America.....	1
Philippine Islands.....	11	British Guinea.....	1
Roumania.....	11	Unknown.....	1,132
Jamaica.....	9		
		Total	<u>16,873</u>
		<i>Carried forward....</i>	15,655

CONDITION OF PATIENTS DISCHARGED DURING THE
YEAR.

Well.....	2,779	<i>Brought forward...</i>	14,857
Relieved.....	10,527	Died.....	2,027
Not relieved.....	<u>1,551</u>		
<i>Carried forward....</i>	14,857	Total.....	<u>16,884</u>

SOUTH DEPARTMENT.

NATIVITY OF PATIENTS ADMITTED TO THE SOUTH DEPARTMENT DURING THE YEAR.

Boston.....	1,729	<i>Brought forward...</i>	2,903
Other cities and towns		Finland.....	4
in Massachusetts....	369	Norway.....	3
Maine.....	73	Portugal.....	3
New Hampshire.....	37	Armenia.....	3
Vermont.....	16	France.....	2
Rhode Island.....	19	Belgium.....	2
Connecticut.....	24	Denmark.....	2
Other states.....	236	Holland.....	2
British Provinces.....	124	Spain.....	2
Ireland.....	96	Turkey.....	2
Russia.....	49	Switzerland.....	1
Italy.....	45	Australia.....	1
England.....	29	Syria.....	1
Scotland.....	11	Asia.....	1
Sweden.....	10	South America.....	1
West Indies.....	9	Persia.....	1
Greece.....	8	Mexico.....	1
Austria.....	7	Unknown.....	174
Poland.....	6		
Germany.....	6	<i>Total.....</i>	<u>3,109</u>
	<i>Carried forward....</i>	2,903	

CONDITION OF PATIENTS DISCHARGED FROM THE SOUTH DEPARTMENT DURING THE YEAR.

Well.....	2,519	<i>Brought forward...</i>	2,757	
Relieved.....	208	Eloped.....	2	
Not relieved.....	30	Died.....	407	
	<i>Carried forward....</i>	2,757	<i>Total.....</i>	<u>3,166</u>

SOUTH DEPARTMENT.

PRINCIPAL STATISTICS FOR THE YEAR FEBRUARY 1,
1918, TO JANUARY 31, 1919.

Number of patients remaining in the South Department January 31, 1918	296
Admitted from February 1, 1918, to January 31, 1919,	3,109
	—
Treated during the year	3,405
Discharged during the year	2,759
Died during the year	407
	—
	3,166
	—
Number of patients remaining January 31, 1919	239
Maximum number of patients at any one time	333
Minimum number of patients at any one time	98
Daily average number of patients	220.7
Average number of days' stay of patients	23.7
Number of days' treatment given patients	80,548
Number of weeks' treatment given patients	11,507
Number of patients admitted over fifteen years of age,	1,167
Average age of patients	13½
Number of patients dying within forty-eight hours of admission	130
Percentage of deaths to discharges	12.9
The death rate from all diseases	11.9
The death rate from all diseases, deducting deaths within twenty-four hours of admission	9.7

If a comparison is made between the South Department and the hospital proper as to the number of days' board given patients, it will be found that at the former it is 80,548, while at the latter it is 208,142.

Table No. 1.

EXPENDITURES, CLASSIFIED, FOR THE YEAR ENDING
JANUARY 31, 1919.

GROUP AND ITEM.	ALL DEPARTMENTS.	
	1918-1919.	
A. PERSONAL SERVICE.....		\$381,412 00
Permanent employees.....	\$375,787 00	
Temporary employees.....	2,900 00	
Unassigned.....	2,725 00	
B. SERVICES OTHER THAN PERSONAL.....		38,211 29
Printing and binding.....	\$275 93	
Postage.....	1,168 95	
Advertising and posting.....	109 85	
Transportation of persons.....	874 20	
Cartage and freight.....	626 95	
Light and power.....	5,079 06	
Premium on surety bond.....	140 00	
Communication.....	4,372 64	
Motor vehicle repairs.....	2,606 51	
Motorless vehicle repairs.....	184 40	
Care of horses.....	288 86	
Cleaning.....	2 90	
Removal of snow.....	489 75	
Veterinary.....	6 75	
Expert and architect.....	1,396 55	
Fees, service of venires, etc.....	16 50	
Boiler inspection.....	20 00	
Photographic and blueprinting.....	48	
General plant repairs.....	20,530 31	
Horseshoeing and clipping.....	20 70	
C. EQUIPMENT.....		72,720 00
Machinery.....	\$541 25	
Electrical.....	722 60	
Motor vehicles.....	3,662 55	
<i>Carried forward</i>	\$4,926 40	\$492,343 29

EXPENDITURES, CLASSIFIED, FOR YEAR ENDING JANUARY 31, 1919.—*Cont.*

GROUP AND ITEM.	ALL DEPARTMENTS.	
	1918-1919.	
<i>Brought forward</i>	\$4,926 40	\$492,343 29
C. EQUIPMENT.—Concluded.		
Stable.....	3 50	
Furniture and fittings.....	37,826 14	
Educational and recreational.....	75	
Office.....	304 40	
Medical, surgical, laboratory.....	15,558 81	
Tools and instruments.....	3,624 01	
Live stock.....	185 65	
Wearing apparel.....	9,732 34	
General plant.....	558 00	
D. SUPPLIES		459,014 07
Office.....	\$9,326 77	
Food and ice.....	233,748 32	
Fuel.....	133,779 79	
Forage and animal.....	1,013 88	
Medical, surgical, laboratory.....	63,747 44	
Laundry, cleaning and toilet.....	11,018 68	
Educational and recreational.....	314 09	
Agricultural.....	384 05	
Motor vehicle.....	3,020 88	
Chemicals and disinfectants.....	604 86	
General plant.....	2,055 31	
E. MATERIALS		22,660 07
Building.....	\$10,674 43	
Machinery.....	1,341 31	
Electrical.....	2,338 05	
General plant.....	8,306 28	
F. SPECIAL ITEMS		357 26
Workingmen's compensation.....	\$357 26	
Total expenditures.....		\$974,374 69
STOCK ON HAND FEBRUARY 1, 1918.		
<i>All Departments</i>		
General supplies.....	\$34,448 27	
Coal.....	8,107 70	
<i>Carried forward</i>	\$42,555 97	\$974,374 69

EXPENDITURES, CLASSIFIED, FOR YEAR ENDING JANUARY 31, 1919.—*Concl.*

GROUP AND ITEM.	ALL DEPARTMENTS.	
	1918-1919.	
Brought forward.....	\$42,555 97	\$974,374 69
STOCK ON HAND FEBRUARY 1, 1918.— <i>Concluded.</i>		
<i>All Departments.</i>		
Medical supplies.....	10,043 68	
Liquors.....	460 35	
		53,060 00
DEDUCT.		\$1,027,434 69
STOCK ON HAND FEBRUARY 1, 1919.		
<i>All Departments.</i>		
General supplies.....	\$50,764 62	
Coal.....	3,003 00	
Medical supplies.....	9,513 37	
Liquors.....	356 01	
		63,637 00
Total maintenance expenses.....		\$963,797 69
DEDUCT REVENUE.		
Income from paying patients:		
Collected by hospital.....	\$144,223 03	
Collected by Board of Health for contagious cases.....	24,332 11	
		\$168,555 14
Revenue on account of maintenance:		
Interest on trust funds.....		2,174 00
Sundry revenue:		
From United States Government:		
Account coal, West Department.....	\$440 00	
Account furniture and fittings, West Department.....	11,314 24	
Sale of old material, including desks, blackboards, barrels, paper, metals, rubber.....	972 65	
Sale of two cows and a heifer.....	165 00	
Commission on automatic telephones.....	148 76	
Birth fees.....	105 25	
Rent of land for store.....	100 00	
Interest on bank deposit.....	78 42	
Sale of standing grass.....	40 00	
		13,364 32
Net cost to the city for maintaining all departments from February 1, 1918, to January 31, 1919, inclusive.....		\$184,093 46
		\$779,704 23

Table No. 2.
EXPENDITURES ON FOOD, ICE AND FUEL.
February 1, 1918, to January 31, 1919, Inclusive.

ARTICLES.	Quantity.	Average Price.	Cost.	Total.
FOOD.				
Beef and veal.....	130,811 lbs.	\$0 233 per lb.	\$30,419 87	
Mutton and lamb.....	64,588 "	262 "	16,919 93	
Poultry.....	49,609 "	339 "	16,811 55	
Pork and hams.....	53,302 "	285 "	15,195 94	
Fish.....			7,399 01	
Lard.....	4,158 "	242 "	1,008 00	
Table milk.....	379,794 qts.	111 per qt.	42,100 13	
Powdered milk.....	5,060 lbs.	259 per lb.	1,309 00	
Malted and modified milk,			595 28	
Butter.....	48,031 lbs.	454 "	21,828 23	
Cheese.....	1,855 "	284 "	527 20	
Eggs.....	45,880 doz.	529 per doz.	24,269 91	
Vegetables, fresh.....			10,371 45	
Vegetables, canned.....			2,170 79	
Fruit, fresh.....			5,963 77	
Fruit, canned.....			4,337 16	
Flour.....	806½ bbls.	11 963 per bbl.	9,648 52	
Graham flour.....	50 "	9 387 "	469 35	
Oatmeal.....	67 "	10 445 "	699 83	
Cornstarch and farina.....	2,122 lbs.	078 per lb.	165 71	
Rice.....	5,800 "	089 "	514 25	
Other cereals.....			2,309 96	
Groceries.....			4,416 26	
Coffee.....	14,646 "	179 "	2,625 85	
Tea.....	5,423 "	307 "	1,664 90	
Chocolate and cocoa.....	2,247 "	161 "	362 47	
Sugar.....	62,653 "	077 "	4,833 09	
Molasses and syrup.....	665½ gals.	843 per gal.	561 12	<u>\$229,498 53</u>
ICE.				
Ice.....	976 ²⁵³ / ₂₀₀₀ tons.	4 352 per ton.	\$4,249 79	<u>\$4,249 79</u>
FUEL.				
Steaming coal.....	9,745 ¹⁷² / ₂₀₀ tons.	11 256 per ton.	\$109,701 33	
Anthracite coal.....	2,522 ⁷⁴⁰ / ₂₀₀₀ "	9 430 "	23,785 81	
Charcoal.....			277 25	
Wood.....			15 40	<u>\$133,779 79</u>

Table No. 3.

COMPARISON OF THE CENSUS AND EXPENDITURES AT THE BOSTON
CITY HOSPITAL FOR THE FISCAL YEARS ENDING JANUARY 31,
1915, 1916, 1917, 1918, 1919.

POPULATION.	1914-15.	1915-16.	1916-17.	1917-18.	1918-19.
Number of inmates beginning fiscal year,	930	971	975	892	971
Number received during year.....	18,149	19,922	20,987	22,226	21,890
Number discharged during year, includ- ing deaths.....	18,108	19,918	21,070	22,147	21,968
Number at end of fiscal year.....	971	975	892	971	893
Daily average attendance (<i>i. e.</i> , number inmates actually present) during fiscal year.....	859.5	865.3	882.4	881.2	815.8
Average number officers and employees during fiscal year.....	698.6	717.4	707.4	701.1	671.8
Total average — inmates, officers and employees.....	1,558.1	1,582.7	1,589.8	1,582.3	1,487.6
EXPENDITURES.					
Current expenditures:					
Salaries and wages.....	\$298,305 57	\$341,535 63	\$356,603 74	\$361,792 28	\$381,769 26
Clothing.....	2,364 42	2,883 84	3,659 46	4,797 98	9,732 34
Subsistence of patients and employees,	178,080 27	164,013 80	194,346 08	213,061 90	229,498 53
Ordinary repairs and replacements...	27,959 88	35,018 09	19,691 37	15,882 07	23,882 12
Office, domestic, outdoor expenses...	167,303 11	174,986 05	206,093 10	267,836 91	328,129 44
Extraordinary expenses:					
Permanent improvements.....		3,670 70	18,160 12	2,244 41	1,363 00
Salaries.....		2,937 32	.....	.....	.....
Grand totals.....	\$674,013 25	\$725,045 43	\$798,553 87	\$865,615 55	\$974,374 69
Deduct Out-Patient Department (estimat- ed).....	67,285 64	77,683 53	85,445 26	92,620 86	104,258 09
Totals.....	\$606,727 61	\$647,361 90	\$713,108 61	\$772,994 69	\$870,116 60
Add or deduct difference in stock on hand at beginning and end of year...	-9,768 00	+4,368 00	-20,650 00	+1,603 00	-10,577 00
Gross cost for ward patients..	\$596,959 61	\$651,729 90	\$692,458 61	\$774,597 69	\$859,539 60
Deduct revenue paid to City Treasurer,	127,988 35	142,960 76	156,492 23	135,102 37	184,093 46
Net cost for ward patients.....	\$468,971 26	\$508,769 14	\$535,966 38	\$639,495 32	\$675,446 14

COMPARISON OF THE CENSUS AND EXPENDITURES.—*Concluded.*

	1914-15.	1915-16.	1916-17.	1917-18.	1918-19.
Per capita cost per ward patient per week:					
Including permanent improvements..	\$13 32	\$14 44	\$15 01	\$16 86	\$20 21
Exclusive of permanent improvements,	13 32	14 30	14 62	16 81	20 17
Including permanent improvements, and deducting money paid to City Treasurer.....	10 46	11 28	11 62	13 92	15 88
Exclusive of permanent improvements, and deducting money paid to City Treasurer.....	10 46	11 13	11 22	13 87	15 85

The tables of disbursements in this report show the expenditures of the Hospital Department during the fiscal year February 1, 1918, to January 31, 1919, inclusive. Table No. 1 shows the expenditures, classified, for the year. Table No. 2 shows the expenditures on food, ice and fuel. Table No. 3 is a comparison of the census, expenditures and per capita costs for the last five years.

The total expenditures during the fiscal year for Hospital Department, in the various branches, have been \$974,374.69, and the disbursements have been made as follows:

For Personal Service	\$381,412 00
Service Other than Personal	38,211 29
Equipment	72,720 00
Supplies	459,014 07
Materials	22,660 07
Special Items	357 26
 Total	 <u>\$974,374 69</u>

REVENUE FROM ALL SOURCES FOR THE YEAR FEBRUARY 1, 1918, TO JANUARY 31, 1919, INCLUSIVE.

	Hospital Proper.	South Department.	West Depart- ment.	Haymarket Square Relief Station.	East Boston Relief Station.	Convalescent Home.	Totals.	Grand Totals.
Revenue, Account of Maintenance:								
Interest on Trust Funds	\$2,174 00	.....	.....	.....	.....	.....	.....	\$2,174 00
Sundry Revenue:								
Income from Paying Patients:								
Collected by hospital.....	126,533 12	\$14,932 61	.....	\$2,005 79	\$751 51	.....	.....	\$144,223 03
Collected by Board of Health for contagious cases.....	.....	24,332 11	.....	.....	.....	.....	.....	24,332 11
From United States Government:								
Account coal, West Department.....	.....	.....	\$440 00	.....	.....	.....	.....	\$440 00
Account furniture and fittings, West Department.....	.....	.....	11,314 24	.....	.....	.....	.....	11,314 24
Sale of old material:								
Waste paper.....	96 85	.....	.....	.....	.....	.....	.....	\$96 85
Old metals and rubber.....	685 36	.....	.....	.....	.....	.....	.....	685 36
Desks and blackboards.....	.....	.....	25 00	.....	.....	.....	.....	25 00
Miscellaneous	165 19	.....	.....	25	.....	.....	.....	165 44
Sale of two cows and a heifer .....	.....	.....	.....	.....	.....	.....	.....	972 65
Commission on automatic telephones	148 76	.....	.....	.....	.....	.....	.....	165 00
Birth fees	105 25	.....	.....	.....	.....	.....	.....	148 76
Rent of land for store .....	.....	.....	.....	100 00	.....	.....	.....	105 25
Interest on bank deposit	78 42	.....	.....	.....	.....	.....	.....	100 00
Sale of standing grass .....	.....	.....	.....	40 00	.....	.....	.....	78 42
Totals.....	\$129,986 95	\$39,264 72	\$11,919 24	\$2,006 04	\$751 51	\$165 00	.....	40 00
							.....	\$184,093 46

The main hospital has four subdivisions: The hospital (wards) proper, Out-Patient Departments, the Pathological Department and the X-Ray Laboratory. The expenditures for the South Department for infectious diseases, the Haymarket Square Relief Station, the East Boston Relief Station and the Convalescent Home are kept in a combined table.

The expenditures of the hospital in all its departments were for the care of 22,861 patients in the wards for 297,769 days', or 42,538 weeks' board, which makes the average weekly cost of \$20.21 or a daily cost of \$2.88 $\frac{5}{7}$ for patients of all classes. The cost of uncooked food supplies for all persons, including patients and the entire household in all departments of the hospital, was \$229,498.53. The average number of patients was 815.8; of officers and employees, including house and nursing staff, 671.8, or a total daily average of 1,487.6 persons. The number of weeks' board for all persons was 77,567 and the weekly cost per person for uncooked food supplies was \$2.96 or 42 $\frac{2}{7}$ cents per day.

If from the total operating expenses, \$974,374.69, is deducted the increase in stock on hand, which is \$10,577, we find the cost of maintenance \$963,797.69. If we divide the amount by 460,390, the total number of days' board given ward patients plus the number of visits of out-patients, we obtain \$2.09 as the gross cost per day for all patients.

The total expenditures in the Hospital Department have been \$974,374.69, but the net cost to the city for maintaining it was only \$779,704.23.

The maximum number of patients in the hospital proper on any one day was 736, as against 732 in the previous year. The minimum number was 441 in comparison with 486 for the previous year. The daily average during the year was 570.3, and the average length of stay was 11 $\frac{9}{10}$ days.

There have been treated in the various Out-Patient Departments at the hospital proper 29,488 patients.

Other statistics may be found elsewhere, including the number of out-patients, number of their visits, rate of mortality, work of ambulances, census of days' board for all persons, the nativity of patients admitted and physical condition of patients when discharged.

The total number of deaths from February 1, 1918, to January 31, 1919, was 2,027. This does not include the statistics of the South Department, but only the main hospital.

Of the deaths, there occurred within

48 hours of admission	801 or $4\frac{6}{10}$ per cent.
Other deaths	1,226 or 7 per cent.
Total	2,027 or $11\frac{6}{10}$ per cent.

the rate of mortality for the year ending January 31, 1919.

This percentage of deaths is for the total number of patients treated in the hospital. The deaths occurring within forty-eight hours of admission (801) were 39.52 per cent of the whole number of deaths (2,027).

During the year 17,506 patients were treated in the wards of the main hospital, 29,488 as out-patients, 362 at the Convalescent Home, 3,405 at the South Department; at the Haymarket Square Relief Station 1,176 were treated in the wards and 25,233 as out-patients, and at the East Boston Relief Station 412 were treated in the wards and 10,724 as out-patients, a total of 88,306 who have received the benefits of the hospital in all departments.

During the year 17,161 persons applied for admission at the main hospital. Of this number 16,873 were admitted and 288 rejected. This number rejected was $1\frac{7}{10}$ per cent of all persons applying, and the causes of rejection appear in the table of applicants not admitted, on page 49.

There were 259 self-rejected or deferred: Of these, 82 were admitted within three days and 78 admitted later. There were 177 denied admission because they had a

state settlement, but of these 29 were admitted within three days and 21 later. One hundred seven were rejected for lack of accommodation, but of these 24 were admitted within three days and 39 still later. Eighteen were refused admission because they did not reside within the city limits, but three of these were admitted within three days and five later. Five were denied admission on account of lack of information that they were suitable applicants and three others were referred to other public institutions on account of the nature of their diseases.

HAYMARKET SQUARE RELIEF STATION.

The following are the principal statistics of the Haymarket Square Relief Station for the year:

Number of patients remaining in Haymarket Square Relief Station January 31, 1918	5
Admitted from February 1, 1918, to January 31, 1919, inclusive	1,171
	—
Treated during the year	1,176
Discharged during the year	1,055
Died during the year	120
	—
	1,175
—	—
Number of patients remaining in Haymarket Square Relief Station January 31, 1919	1
Number of out-patients treated	25,233
Largest number of out-patients treated on any one day	128
Number of major surgical operations	61
Number of deaths following surgical operations	5
Number of deaths within twenty-four hours of admission	81
Number of days' treatment given patients in wards	1,712
Largest number of ward patients on any one day	15
Smallest number of ward patients on any one day	0
Average stay of ward patients in days	1.5
Daily average in wards	4.7

HAYMARKET SQUARE RELIEF STATION.—*Concluded.*

Number of ambulance calls	1,417
Number of ambulance trips for transfer of admitted patients to hospital proper	530
Miscellaneous ambulance trips	14
	—
Number of ward patients transferred to hospital proper	256
Number of out-patients transferred to hospital proper	461
	—
Number of cases brought in by police ambulances and patrol wagons	717
Number of cases brought in by carriages and automobiles	1,443
Total number of patients carried by Relief Station ambulances	741
Total number of miles run by Relief Station ambulances	2,048
	—
	7,511

EAST BOSTON RELIEF STATION.

The following are the principal statistics for the year:

Number of patients remaining at the East Boston Relief Station January 31, 1918	4
Admitted from February 1, 1918, to January 31, 1919, inclusive	408
	—
Treated during the year	412
Discharged during the year	361
Died during the year	48
	—
Number of patients remaining in East Boston Relief Station January 31, 1919	3
Number of out-patients treated	10,724
Number of visits of out-patients	24,511
Largest number of out-patients treated on any one day,	169
Number of major surgical operations	21
Number of deaths	48
Number of deaths within twenty-four hours of admission	43
Number of days' treatment given patients in wards	951

EAST BOSTON RELIEF STATION.—*Concluded.*

Largest number of ward patients on any one day	11
Smallest number of ward patients on any one day	0
Average stay of ward patients in days	2.3
Daily average in wards	2.6
Number of ambulance trips for transfer of admitted patients to hospital proper	120
Number of trips by East Boston Relief Station ambulance	151
Number of patients transferred to hospital proper	147
Number of patients brought in by police ambulances, patrol wagons, carriages, automobiles, etc.	501
Number of patients carried by East Boston Relief Station ambulance	125
Number of cases accidentally injured admitted to wards	214

CONVALESCENT HOME.

The statistics of the Convalescent Home, which has just completed its twenty-eighth year, are as follows:

Number of patients in Home January 31, 1918	33
Admitted during the year	329
	—
Total treated during the year	362
Discharged during the year	334
	—
Number remaining in Home January 31, 1919	28
Number of days' board given patients	6,416
Largest number of patients on any one day	33
Smallest number of patients on any one day	6
Daily average number of patients	17.5
Average stay of patients in days	17.7

GENERAL REPAIRS.

The hospital carpenters and painters have been kept constantly busy on their usual work of renovating buildings and furniture. They have built and painted partitions, vestibules, doors, wind shields on bridges; they have remodeled dry room in laundry, put in new floors, made tables, built closets, remodeled a shop, and made necessary repairs too numerous to mention.

MEDICAL LIBRARY.

Number of books in library February 1, 1918	3,412
Number of books added to library from February 1, 1918, to January 31, 1919:	
By purchase	26
By donation	26
	—
Number of books in library January 31, 1919	<u>3,464</u>

For all books received during the year index cards have been written and filed.

There have been received during the year 153 medical monographs and reprints and 162 hospital and health reports and 415 periodicals.

Fourteen thousand four hundred seventy-nine index cards of clinical records have been written and filed during the year.

TRAINING SCHOOL FOR NURSES.

The Training School for Nurses has now completed its forty-first year. The changes in the nursing staff during the year have been as follows:

SUMMARY FROM FEBRUARY 1, 1918, TO JANUARY
31, 1919.

February 1, 1918, the number of nurses was	<u>257</u>
--	------------

During the year nurses left as follows:

Supervisor resigned	1
Instructor resigned	1
Head nurses resigned	19
Head nurses dropped—military service	18
Pupils graduated	37
Pupils dropped from roll	21
Vassar pupils resigned	6
Probationers dropped from roll	22
<i>Carried forward</i>	125

Brought forward 125
 Pupils from affiliated schools have completed
 courses as follows:

Boston State Hospital	. . . . .	10
Taunton State Hospital	. . . . .	22
New England Hospital	. . . . .	10
Leonard Morse Hospital	. . . . .	6
Worcester Memorial Hospital	. . . . .	8
Cushing Hospital	. . . . .	2
Affiliated pupils who withdrew	. . . . .	7
Graduate specials who withdrew	. . . . .	17
Pupils died	. . . . .	9

Total left 216

Number of nurses remaining	. . . . .	41
Graduates retained	. . . . .	14
Graduates readmitted	. . . . .	10
Pupils readmitted	. . . . .	9
Probationers admitted	. . . . .	57
Probationers readmitted	. . . . .	3
Vassar class admitted	. . . . .	19

Pupils from affiliated schools admitted as follows:

Boston State Hospital	. . . . .	13
Taunton State Hospital	. . . . .	13
New England Hospital	. . . . .	11
Worcester Memorial Hospital	. . . . .	11
Cushing Hospital	. . . . .	5
Long Island Hospital	. . . . .	2
Leonard Morse Hospital	. . . . .	6
Affiliated pupils readmitted	. . . . .	3
Graduate special nurses	. . . . .	16

Total number remaining January 31, 1919 233

NURSES CONNECTED WITH THE SCHOOL JANUARY 31, 1919.

<i>Main Hospital:</i>	
Superintendent of nurses and assistant superin-	
tendents of nurses	. . . . .
Instructors	. . . . .
<i>Carried forward</i>	. . . . .

<i>Brought forward</i>	.	.	.	.	.	.	7
Special nurses	.	.	.	.	.	.	9
Graduates	.	.	.	.	.	.	19
Pupils	.	.	.	.	.	.	102
Probationers	.	.	.	.	.	.	12
Affiliated pupils:							
New England Hospital	.	.	.	.	.	.	3
Taunton State Hospital	.	.	.	.	.	.	12
Boston State Hospital	.	.	.	.	.	.	5
Cushing Hospital	.	.	.	.	.	.	3
							—
							172
<i>South Department:</i>							
Assistant superintendent and supervisors of							
nurses	.	.	.	.	.	.	3
Head nurses	.	.	.	.	.	.	2
Pupils	.	.	.	.	.	.	27
Special nurses	.	.	.	.	.	.	7
Affiliated pupils:							
Worcester Memorial Hospital	.	.	.	.	.	.	5
Leonard Morse Hospital	.	.	.	.	.	.	2
Boston State Hospital	.	.	.	.	.	.	1
Long Island Hospital	.	.	.	.	.	.	1
							—
							48
<i>Haymarket Square Relief Station:</i>							
Matron and graduates	.	.	.	.	.	.	3
Pupils	.	.	.	.	.	.	3
Affiliated pupil:							
New England Hospital	.	.	.	.	.	.	1
							—
							7
<i>East Boston Relief Station:</i>							
Head nurse	.	.	.	.	.	.	1
Pupil	.	.	.	.	.	.	1
Affiliated pupils:							
Long Island Hospital	.	.	.	.	.	.	1
New England Hospital	.	.	.	.	.	.	1
							—
							4
<i>Convalescent Home:</i>							
Matron	.	.	.	.	.	.	1
Head Nurse	.	.	.	.	.	.	1
							—
							2
Total	.	.	.	.	.	.	233

The Training School for Nurses has now completed its forty-first year. The changes in nursing staff during the year have been as follows:

Sixty probationers and nineteen college women from Vassar Training Camp have been admitted. Thirty pupils graduated. Twelve nurses have completed obstetrical training at New England Hospital for Women and Children. Two have finished the courses in Public Health work and two are now taking the course. Two pupils are at present taking a three months' course in Social Service Department. Sixty-one pupils from schools affiliated with Training School have completed their course.

Miss Ursula C. Noyes, of South Department, Miss Frances E. Morley, instructor of nurses, Miss Rose E. Doyle, instructor of probationers, Miss Lydia C. Lee, dietitian, and Miss Katherine McCarthy, chief nurse of operating floor, have taught the usual number of classes in their respective departments.

Professor Nissen has held thirty-six classes in massage. The school has received twenty-six lectures from members of the Visiting Staff. The senior pupils have attended twenty surgical clinics given by Dr. Alfred C. Callister and twenty medical clinics by Dr. John A. Foley of the executive staff.

The regular graduation exercises were held Friday, May 25, at 4 p. m. Hon. Andrew J. Peters, Mayor of Boston, gave the address and Dr. George G. Sears, Chairman of Training School Committee, presented the diplomas.

One male nurse was granted a diploma. Nine male nurses are at present in training.

In early April Miss Emma M. Nichols, Superintendent of Nurses and Matron, and eighteen of our head nurses, members of Boston City Hospital Base Hospital No. 7, were sent in group to the cantonments of this country for preliminary military training, Miss Nichols going to the Walter Reed Hospital, Washington, D. C. On July 21, 1918, they sailed with the remaining mem-

bers of the unit under Dr. John J. Dowling, Superintendent of the Hospital and Medical Director of the unit, for France, where they are at the present time.

Never in the history of the Training School have we had to combat such conditions as we have during the recent epidemic. The shortage of male and female nurses, due first to the number called into military service, and second to the illness of so many faithful workers who succumbed, was a serious handicap. This fact will be clearer when I say that at the height of the calamity eighty nurses and five attendants were ill. Of that number, the names of nine nurses and one attendant were added to the already too long list of deaths. It is the first time in the history of the Training School that the nursing of male patients was done entirely by women. At no time during this crisis was there a male nurse on duty. I believe the Training School went through the most difficult period in its history, practically swept clean of its supervisors and teachers. To the student body we owe much: the severest test of courage and character was imposed upon them and without a murmur they met the demand.

CHANGES IN THE EXECUTIVE STAFF.

In March John J. Dowling, M. D., Superintendent and Medical Director, left for military service. He remained at Camp Devens a few months, then went to France at the head of Base Hospital Unit No. 7.

When Doctor Dowling left for military service, Dr. Edmund W. Wilson, Assistant Superintendent, was made Acting Superintendent.

In February Joseph H. Shortell, M. D., Resident Surgeon, and William C. R. Hurley, M. D., Third Executive Assistant, left for military service. Alfred C. Callister, M. D., was then appointed Resident Surgeon. John H. Cauley, M. D., Night Executive Assistant, was made Third Executive Assistant, and Lawrence A. Betteridge, M. D., was made Night Executive Assistant. Doctor Cauley left for military service early in March

and Louis F. Curran, M. D., was appointed Executive Assistant. At this time Francis S. Brodrick, M. D., was appointed temporary Executive Assistant. Doctor Curran resigned in January and Doctor Brodrick was appointed to the vacancy thus created. At this time William B. Young, M. D., was appointed Executive Assistant and Harold Q. Gallupe, M. D., was appointed Resident Anæsthetist.

So many of the Pathological Staff were called to military service that the opening of the year found only the following officers on duty: Frank B. Mallory, M. D., Pathologist; Frederick Parker, Jr., M. D., Second Assistant Pathologist; Leonard Rothschild, M. D., Acting Second Assistant in Pathology.

In May Mr. Thomas K. Richards was appointed Substitute Senior Interne in Pathology and Assistant in Pathology for five months, and Mr. Alfred M. Goodale was appointed Substitute Junior Interne in Pathology and Assistant in Pathology for eight months beginning in June. These terms were later extended to one year.

In the early summer Leonard Rothschild, M. D., resigned, and Frederick Parker, Jr., M. D., was granted leave of absence for military service.

Matthew N. Tennis, M. D., served as Assistant Physician for X-Ray Service from early in February until early in May.

In July Dr. A. Stewart Macmillan was appointed Assistant Physician for X-Ray Service, which position he filled until he left for military service in September.

In December Dr. Ester M. E. Sundelöf was appointed Acting Assistant Physician for X-Ray Service.

At the South Department the following changes have occurred: Omah P. Badger, M. D., was appointed Assistant Physician in February; he served until September, when he became ill with Spanish influenza and passed away after a brief illness. Hiram H. Amiral, M. D., Assistant Physician, and Carl Bearse, M. D., Assistant Physician, left for military service, Doctor Amiral going in May and Doctor Bearse in March. In

April Benjamin D. Paul, M. D., was appointed Assistant Physician, but he was obliged to leave for military service in July. In June Edward J. Monahan, M. D., was appointed Assistant Physician, in September Jesse M. David, M. D., was appointed Assistant Physician, and in December Wallace H. Drake, M. D., was appointed Assistant Physician.

At the East Boston Relief Station Carl Bibb Hudson, M. D., who left the position of Resident Surgeon in October, 1917, for military service, died of pneumonia at camp in France. George W. Papen, M. D., Assistant Resident Surgeon, left for military service in February. G. Lynde Gately, M. D., was then appointed Assistant Resident Surgeon. Doctor Gately left for service on the United States Shipping Board in May. Charles F. Wilcox, M. D., was then appointed to the position of Assistant Resident Surgeon and he served until his call to military service in September. Harry E. Mason, M. D., was appointed Assistant Resident Surgeon in November. In January Doctor Mason left to take a position with the United States Shipping Board and Doctor Gately was reappointed Assistant Resident Surgeon.

The following changes have occurred in the Training School for Nurses: In April Miss Emma M. Nichols, Superintendent of Nurses and Matron, left for overseas work, as Chief Nurse of Base Hospital Unit No. 7, and Miss Mary Alice McMahon, First Assistant Superintendent of Nurses, was appointed Acting Superintendent of Nurses and Matron for the period of Miss Nichols' absence. Miss Margaret J. Fallon then became temporarily First Assistant Superintendent of Nurses and Miss May M. Houston Second Assistant Superintendent of Nurses. Miss Della M. Currier, Night Supervisor of Nurses, left for service with Base Hospital No 7 in April and Miss Eliza S. Williams was appointed temporarily to the position of Night Supervisor of Nurses. Upon Miss Houston's resignation in January, Miss Eliza S. Williams was appointed temporarily Second

Assistant Superintendent of Nurses and Miss Ettie O. Owen Night Supervisor of Nurses. Mrs. Elizabeth C. Farley, Instructor of Probationers, left in March and Miss Rose E. Doyle was appointed to the position.

In presenting the fifty-fifth annual report I wish to express to the trustees, the staff and the executive force my appreciation of their splendid support during the past year.

EDMUND W. WILSON, M. D.,
Acting Superintendent and Medical Director.

BEQUESTS.

FUNDS WITH INTEREST ONLY AVAILABLE.

<i>Goodnow Fund.</i> — For the support of free beds	\$26,000 00
<i>Nichols Fund.</i> — For the establishment and endowment of a City Hospital	2,000 00
<i>Norcross Fund.</i> — For the benefit of patients leaving the hospital poor and destitute of proper clothing	2,000 00
<i>Ball Fund.</i> — For the same purpose and under the same restrictions as the Norcross Fund	1,000 00
<i>Goodnow Library Fund.</i> — For replenishing the library of the hospital with books and pamphlets suitable for the reading of the patients during convalescence	1,000 00
<i>Shaw Fund.</i> — For the purchase of flowers and fruit for the use and comfort of the patients in the hospital	2,000 00
<i>Perkins Fund.</i> — For books for the Medical Library, and for the purchase of artificial limbs and surgical appliances for the use and relief of patients leaving the hospital	7,500 00
<i>Cheever Fund.</i> — To purchase and present to each house surgeon when his service expires a pocket case of surgical instruments, as a gift from Dr. David W. Cheever	3,500 00
<i>Charles P. Hemenway Fund.</i> — For a free bed, to be known as the Charles P. Hemenway Memorial Bed	5,000 00
<i>Herbert L. Burrell Ether Prize Fund.</i> — For a money prize to be given to the house officer who administers ether or other anæsthetic in the most skillful and humane manner	1,000 00
<i>Silas Durkee Fund.</i> — “For the benefit of the Boston City Hospital”	15,050 00
<i>Daniel S. Ford Fund.</i> — “For the benefit of the Boston City Hospital”	6,000 00
<i>Carried forward</i>	\$72,050 00

THE BOSTON CITY HOSPITAL.

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<i>Brought forward</i>	.\$72,050 00
<i>Carter Fund</i> .— For books for the benefit of the Training School for Nurses	2,000 00
<i>Hettie Lang Shuman Memorial Library Fund</i> .— To be expended in perpetuity by the trustees for new books for the use of hospital patients and for the replacing of volumes that have become damaged, lost or destroyed	2,000 00
<i>William T. Bolton Fund</i> .— For the benefit of the Boston City Hospital	500 00
<i>Patrick A. Collins Memorial Library Fund</i> .— For the purchase of new books for the use of hospital patients and for the replacing of those that have become damaged, lost or destroyed	500 00
<i>Mehitable C. C. Wilson Fund</i> .— For the benefit of the Medical Library	500 00
<i>Nurses' Fund</i> .— To be used under direction of superintendent and staff for employment of special nurses	10,000 00
<i>Dr. George S. Hyde Fund</i> .— For the support of a free bed	5,000 00
Total	\$92,550 00

FUNDS WITH BOTH PRINCIPAL AND INTEREST AVAILABLE.

<i>Wyman Building Fund</i> .— Rest and residue of the Thomas T. Wyman estate. Balance on hand January 31, 1919	\$5 45
<i>Patrick A. Collins Memorial Library Fund</i> .— To purchase bookcases and books for the use of hospital patients. Balance on hand January 31, 1919	453 73
<i>Francis Bartlett Bequest</i> .— To be used to purchase radium and X-ray apparatus. Balance on hand January 31, 1919	117 24
Total	\$576 42

THE BOSTON CITY HOSPITAL TRAINING SCHOOL FOR NURSES.

The trustees of the Boston City Hospital in 1878 established a Training School for Nurses, the fourth organized in the United States, in order to give to women desirous of becoming professional nurses a systematic course of training and practice.

The Training School is controlled by the trustees of the hospital, like all other departments of the hospital service. The Superintendent of the Hospital has the general supervision of all matters relating to the school, its course of work and study, lectures and discipline. The Superintendent of Nurses has the immediate charge of all the nursing in the hospital, of all persons employed in the wards and also the instruction and management of the nurses in the Training School. All female nurses in the hospital must be connected with the school.

The hospital in all its departments contains 1,173 beds for patients as follows:

Main Hospital	765
South Department for Infectious Diseases	340
Haymarket Square Relief Station	24
East Boston Relief Station	10
Convalescent Home	34
 Total	 <u>1,173</u>

The number and variety of cases in each department afford ample material for observation and instruction. The course requires three years, and includes general medical and surgical nursing, together with ophthalmic, aural and gynaecological nursing, also the nursing of children and infectious diseases and of emergency surgical work. A maternity ward connected with the

hospital provides a course in maternity nursing. Affiliation at maternity hospital elsewhere, without extra cost to the nurse, has also been arranged.

The most desirable age for candidates is from twenty-one to thirty-five years. They must be of sound health, and should send with their application a certificate from a physician certifying to the fact. They should also send a brief personal history and give the names and addresses of three responsible persons, not of their own kin, preferably their last employer, if any, or business men of their acquaintance, who know of their good character and capabilities. Upon the recommendation of the Superintendent of the Hospital and Superintendent of Nurses, they will be received for three months on probation. The fitness of candidates for the training and work, and the propriety of retaining or dismissing them will be determined by the authorities in charge of the school, under the direction of the trustees. At least two years of high school work is necessary. An entrance examination, held every Tuesday morning at ten o'clock, except holidays, is given to all candidates before the term of probation. The examination is in simple arithmetic, English composition and writing from dictation, etc., and is in no sense so severe as to prevent anyone who is capable of undertaking the work of a trained nurse from so doing. The Superintendent of Nurses will have a personal interview with candidates for the school on Tuesdays from ten to twelve o'clock.

At the end of the second month, candidates, if considered satisfactory, are permitted to wear the cap and enter upon the regular course of training, but such candidates are not permitted to join the school formally until the end of the third month, when, if accepted, they sign an agreement to complete the prescribed course of three years and to conform to all rules. At the end of the first six months the record and work of each pupil are carefully scrutinized as to her fitness to make a good nurse, and the right is reserved by the authorities of the hospital to terminate then, or at

any time, the connection of any pupil or nurse with the school for inefficiency, misconduct, generally unsatisfactory record, or for any other reason which may be deemed sufficient.

The nurses in the Training School (including probationers) reside at the three Nurses' Homes connected with the hospital. These houses are attractive and homelike, and have the best of conditions necessary to good health and personal hygiene, while recreation and amusement, necessary to a wholesome life, have been considered in the music room, library and reception rooms provided.

The Superintendent of Nurses has the immediate charge of the Training School, under the authority of the Superintendent of the Hospital and of the trustees, and the nurses are subject to the rules of the hospital, like any other service.

The instruction includes the general care of the sick, the making of beds, changing the bed and body linen, managing of helpless patients in bed, etc., giving baths, keeping patients warm or cool, prevention or dressing of bed sores, and proper management of the patient under various conditions, with different diseases or injuries; the making and applying of bandages and rollers, preparation of splints, application and management of surgical apparatus, applying of fomentations and poultices, the dressing of burns, ulcers and wounds and other minor dressings and subsequent treatment, the administering of enemata and the use of the female catheter.

Nurses are taught how to act in the various emergencies occurring in hospital and private nursing, as well as in the accidents of ordinary life. They are also given lessons in massage by a professional instructor. There is a systematic course of training in cookery for the sick, the serving of food and delicacies in the proper manner and the feeding of helpless patients or those who resist food.

Instruction is also given in the best practical methods

of supplying fresh air, of warming and ventilating sick rooms in a proper manner, and the proper care of sick rooms for the best good and comfort of the patient; in keeping all utensils and appliances perfectly clean and disinfected; in making accurate observations of the pulse, temperature, respiration, expectorations, the secretions, state of the skin, and eruptions; of mental condition, as delirium, stupor, shock, etc., of the condition as to sleep, appetite, effects of diet or of stimulants and medicines; the behavior of wounds and the after treatment in surgical operations; and in the managing of convalescents. Nurses are taught the administering of medicines and the application of external remedies, how to take notes on cases, the making up of the nurse's record, and the reports to the attending doctor.

The three years' course of training includes a preparatory course of three months under a special instructor, followed by a fixed course of instruction from manuals and text-books, mainly given by the instructors, dietitian and graduate head nurses. Lectures and demonstrations, chiefly upon practical points, are given at stated times by the medical and surgical staff of the hospital. While the instruction by the manuals, text-books, lectures, demonstrations, quizzes and models is considerable, the main reliance is upon accurate daily drill in the wards, operating rooms and other departments of the hospital. Examinations, both oral and written, are held from time to time by the authorities of the school, and nurses will not be graduated unless they attain, on critical marking, at least 70 per cent.

The pupils are employed as assistant nurses in the wards, operating rooms, out-patient departments of the hospital and the two Relief Stations. They are given training in medical, surgical, in contagious and gynaecological wards. Maternity training is provided. No class recitations or lectures are given between July 1 and October 1, except to the probation classes.

Probationers are not paid during their first two months, but for the remaining ten months of the first year they

receive \$10 a month, for the second year \$12.50 a month, and for the third year \$16.67 a month while on duty in the hospital, to pay for the expenses of their uniform, personal clothing and other minor requirements. While on duty in a maternity hospital they will receive the allowance provided by the hospital to which they are assigned. This sum is in nowise intended as wages, it being considered that their education during this time is a full equivalent for their services. When the term of three years is completed the nurses receive, if they pass all the examinations and are otherwise satisfactory, a diploma certifying to the regular course of training and practice, and are then permitted to wear the graduate's badge of the school.

The majority of graduates engage in private nursing, but some are invited to remain in the service of the hospital as head nurses, with opportunities of promotion here or in other hospitals. Graduate head nurses who prefer to remain in hospital work, or return after a term of private nursing, are given post-graduate instructions in ward management, hospital housekeeping and minor administrations, fitting them to fill positions of trust in hospitals or other institutions.

The school year has no fixed date, but accepted candidates are, as a rule, received in classes, beginning every three months. When coming to the hospital they should bring with them the following articles: Three dresses, on order from Superintendent of Nurses; eight large white aprons, made of bleached cotton, two yards wide, meeting in back, with bibs, without straps, without pockets, plain at the top and gathered slightly at the bottom, two pearl studs on the band, two inches wide, with hem at bottom five inches in depth, and two inches from the bottom of the dress; two bags for soiled clothes; one pair of scissors, a pinball, and a plain napkin ring with nurse's name; a good supply of plain underclothing, every article to be distinctly marked with pen and indelible ink with the owner's name. Twenty-one pieces are allowed for the laundry each week.

Nurses must bring suitable outer garments for stormy weather, and they are required to wear boots with rubber heels. If the teeth are out of order in any way they must receive attention before coming for the probationary month. Nurses are required to wear the Training School uniform after they join the school. Material for dresses will be sold at cost price; caps are furnished at a nominal price. Probationers must come prepared to expend about \$20 for uniforms, books and other needful expenses.

Hours of duty for day nurses will vary from six to twelve hours between the hours of 7 a. m. and 8 p. m.; for night nurses, from 8 p. m. to 7 a. m. No nurse is required to do both day and night duty on the same day, except in rare emergencies. Each nurse on day duty is allowed two hours for rest and recreation, one half day, after 1.30 p. m., each week, and four hours on Sunday. Two weeks' vacation with pay is allowed each year, and one week without pay as leave of absence during the third year. If nurses are sick they are cared for in the hospital, but pay is stopped, except for illness or injury received in the line of duty. Pupils may be expected to have a percentage of any considerable time lost by illness or absence added to their three years, at the discretion of the management. Nurses on night duty are required to be in bed from 9 a. m. until 4 p. m.

COURSE OF INSTRUCTION.

I. PROBATIONER'S COURSE.

The first week the probation class meets in the practice room daily for practical instruction in the making of beds, including the use of bed rests, cradles, etc.

The care of rooms, sweeping and dusting.

Care of set bowls, wall-stands and utensils.

Care of linen rooms, the folding of linen.

The use of hot and cold applications, including the making of fomentations and poultices.

The care of rubber goods.

The making of surgical supplies, pads, sponges, tampons, etc.

The use of slings, binders and supports.

During this time the class is instructed in the use of antiseptics, disinfectants and deodorants, and the preparation of solutions.

Tables of weights and measures.

The use of abbreviations and symbols.

The principles of ventilation.

The temperature of the body. Heat production and radiation.

The use of the clinical thermometer and charts.

The giving of baths, care of the back, mouth, etc.

From the seventh (7th) to the tenth (10th) day allowed to go to the wards, make beds, sweep, dust and fold linen (hours from 7 to 10.30 a. m.).

The tenth (10th) day assigned to wards for regular duty, and during the remaining weeks of the probation course three hours each day will be devoted to class and practice room work, with one additional hour for recreation.

Total Hours of Study and Ward Work in Three Months' Probation.

Anatomy, Physiology and Hygiene	66 hours.
Practical Nursing and Practice Room	126 hours.
Materia Medica and Nursing Ethics	24 hours.
Dietetics	12 hours.
Ward Work	481 hours.

I. FIRST YEAR.

Anatomy	36 hours.
Chemistry	12 hours.
Contagious Nursing	12 hours.
Bacteriology	12 hours.

II. SECOND YEAR.

Materia Medica	18 hours.
Laboratory Technique	12 hours.
Dietetics	12 hours.
Cooking	12 hours.
Hygiene and Sanitation	12 hours.

III. THIRD YEAR.

Surgical Clinics	9 hours.
Medical Clinics	9 hours.
Obstetrical Lectures	12 hours.

The prospectus is subject to change.

An excellent reference library is open to nurses for more extended reading upon subjects under consideration.

LIST OF LECTURES AND SUBJECTS.

A lecture is given to the Training School on Fridays, at 4 p. m., in the operating amphitheater, by a member of the Medical and Surgical Staff, once a week between September 15 and June 30. The following are among the lectures given at various periods during the training:

One.— Hygiene and Sanitation. *One.*— Drugs.

One.— Ethics. *Four.*— Therapeutics.

Three.— Contagious Nursing. *Two.*— Care of Children.

Two.— Urinalysis. *Three.*— Ear, Nose and Throat.

Two.— Etherization. *One.*— Bandaging.

Two.— Pathology. *Two.*— Nervous Diseases.

Two.— Gynæcology. *Two.*— The Skin.

Two.— Vaccines and Serums. *One.*— The Eye.

Two.— Emergencies.

HOUSE RULES.

WITH RULES FOR ADMISSION, GOVERNMENT AND DIS-
CHARGE OF PATIENTS; ALSO RULES FOR VISITORS.

HOUSE RULES.

The doors and gates of the hospital will be closed at ten o'clock in the evening, at which time all inmates, excepting head nurses, who are permitted to remain out until twelve o'clock midnight, shall be quiet, and all not on duty shall be in their rooms, unless otherwise specifically permitted.

All officers, nurses and employees of the hospital, when going and coming to and from the hospital, shall enter and go out by the entrance office, and by no other entrance. Such officers and employees as are required shall use the time register and method of booking that the hospital rules require.

A record shall be kept of all persons entering the hospital between the hours of 10 o'clock in the evening and 7.30 o'clock in the morning.

No employee shall be absent from the hospital except when permitted by special rules or by the Superintendent.

No officer, nurse, male nurse or other employee shall, directly or indirectly, receive money or other gifts from or in behalf of patients, except with the approval of the Superintendent.

The use of tobacco, wine and intoxicating liquors is prohibited within the hospital, unless prescribed by the physicians or surgeons.

All profane and improper language, loud talking and incivility are prohibited.

All employees shall observe such further rules and direction for their conduct as may from time to time be established.

ADMISSION OF PATIENTS.

Application for admission may be made at the hospital on each day of the week (Sundays excepted), between nine o'clock a. m. and five o'clock p. m. Whenever able, a patient shall apply in person for admission. When not able to apply in person, a patient may be admitted on application made by his physician, or upon a visit to his residence by the admitting physician.

No person having acute venereal disease or alcoholism shall be admitted unless his condition is urgent, except as a paying patient.

No person shall be admitted to the hospital whose case is judged to be incurable, unless there be urgent symptoms which are deemed capable of being relieved.

Persons with state settlements, unless they stand in need of immediate relief, are to be referred to the state hospital.

Patients settled in other cities and towns in Massachusetts are to be referred to their own city or town for treatment, Boston cases being given the preference.

Unsettled cases, if resident in Boston, may be admitted as paying patients.

Patients may be admitted to the privileges of the hospital at such rate of board as the trustees may from time to time by vote determine, payment for such cases being secured by the friends of the patients or by the authorities of the city or town in which the patient is legally settled.

Whenever, in the opinion of the trustees, the circumstances of the patient will warrant it, the whole or a part of the board will be paid.

If separate apartments or articles not usually furnished at the hospital are furnished, such payment shall be made therefor as the trustees shall deem reasonable.

Persons non-resident and non-settled in Boston are to be admitted only as private patients, *i. e.*, paying patients in private rooms.

All accident or emergency cases shall be received at all hours, night or day, irrespective of settlement.

In all cases where any question arises as to the treatment of newly admitted or other patients, it shall be the duty of the house officer to consult with the executive on duty in regard to such treatment until the arrival of his visiting physician or surgeon.

If in the judgment of the admitting physician the condition of a newly admitted patient is sufficiently urgent to demand the attention of the visiting staff, he shall so notify the house officer and shall direct him to call his visiting physician or surgeon.

In case alcohol is administered to a patient before or after placing him in the ambulance, or by any other than hospital employees, before the arrival of the ambulance, the same is to be promptly reported to the admitting physician, and a record of the fact made in the clinical record book. This rule covers cases brought by conveyances other than hospital ambulances.

GOVERNMENT OF PATIENTS.

Patients shall implicitly observe all the rules of the hospital.

Patients shall be in their proper places in the wards during the visits of the physicians and surgeons, and always before 7.30 o'clock in the evening, unless specially excused by the Superintendent.

Such free patients as are able shall assist in nursing and perform such other services as may be reasonably required of them.

No patient shall leave the hospital grounds without a pass from the Superintendent, nor leave his ward without the consent of the nurse in charge.

No patient shall purchase, or cause to be purchased for him, any article of food whatsoever, or any other article, without the consent of the Superintendent.

Profane and obscene language, loud talking and incivility are prohibited.

Patients may be visited by clergymen of their own selection, and any wish for the performance of a particular religious rite shall be granted when practicable.

Complaints, for whatever cause, may be made to the Superintendent, and whenever requested shall be by him reported to the trustees.

DISCHARGE OF PATIENTS.

Patients shall be discharged by the Superintendent.

Patients discharged on the recommendation of the visiting physician or surgeon shall be provided with a certificate stating their condition at the time of discharge, whether cured, relieved or not relieved, which certificate shall be signed by the Superintendent.

Whenever a patient is removed from the hospital without the approval of the Superintendent, a written statement to that effect shall be required from any person assuming the responsibility of the removal.

VISITORS.

No person shall visit any part of the premises except on business, or at such time as may be fixed for the reception of visitors, without the permission of the Superintendent or of some one of the trustees.

Daily, from 2 to 3 o'clock in the afternoon, friends may be permitted to visit patients, though no patient shall receive more than two visitors at that hour; and from 6 to 6.30 o'clock on each week day friends may be permitted to visit patients, though no patient shall receive more than one visitor at that hour. In all cases, however, the trustees and the Superintendent may exercise discretionary powers as to excluding or admitting visitors.

When visitors are admitted outside of the regular visiting hours they shall not be permitted to remain more than half an hour, except a special permission to remain for further time is granted.

All visitors shall leave the hospital when the bell rings at the expiration of the visiting hour.

No visitor shall take any meal in the hospital, or pass the night therein, without permission of the Superintendent or one of the trustees.

No visitor shall be allowed to give any article of food or drink to a patient unless by permission of the nurse; and any article sent to a patient shall be left at the entrance office.

SPECIAL RULES FOR THE GOVERNMENT OF THE SOUTH DEPARTMENT.

The department of the Boston City Hospital located on the westerly side of Massachusetts avenue shall be designated as the South Department of the Boston City Hospital. It shall receive patients who require treatment for diphtheria, scarlet fever, measles, whooping cough, and for other infectious diseases as may be determined from time to time by the trustees.

The Superintendent and Medical Director of the hospital shall, under the direction of the trustees, have the general control and management of this department in the same manner as of other departments of the hospital.

The rules of the hospital shall, so far as applicable, and except as hereinafter provided, apply to the various officers and employees and to the conduct and management of this department.

SPECIAL RULES FOR THE GOVERNMENT OF THE HAYMARKET SQUARE AND THE EAST BOSTON RELIEF STATIONS.

The Boston City Hospital Relief Stations are established not as hospitals, but as departments of the Boston City Hospital for temporary relief, and the rules and methods prevailing now in the hospital shall, so far as applicable, and not inconsistent with special rules, apply to the Relief Stations.

The stations shall afford temporary relief in all classes of accident and disease. They shall be open at all hours for patients requiring treatment or attention. Patients requiring ward treatment, whether received at the stations or taken up in ambulances, shall, so far as is consistent with their welfare, be forthwith transferred or carried to the hospital for extended treatment, but ward accommodations shall be afforded patients whose condition is such that they cannot properly be transferred. Patients may, however, if it is deemed desirable, be transferred by the ambulances to other hospitals or to their homes. First treatment may be afforded at the stations, although the applicants are not such as require ward treatment.

The Superintendent of the Hospital shall have the general administration, management and control of the stations, the same as of other departments of the hospital.

The Superintendent shall, once a year, nominate for confirmation by the trustees, a Resident Surgeon and one or more Assistant Resident Surgeons for each station; and shall appoint and employ or detail for service in each department, from time to time, as may be necessary, subject to the approval of the trustees or of the proper committees, a Matron, a Supervisor, nurses,

male nurses and such other minor employees as may be required for the proper conduct of the station, who shall be subject to his supervision.

The various officers and employees of the stations shall perform such duties other than those specified as may be required by the trustees or the Superintendent, according to the nature of their respective duties. The Resident Surgeons, the Matron, Supervisors and such other officers as may be so required shall reside at the stations.

PATIENTS.

Alcoholic and insane patients shall not be received unless there is surgical or medical complication making hospital treatment absolutely necessary.

No patient, after being admitted to the wards, shall leave the station until his discharge without a pass from the proper officer, nor shall he visit other parts of the station without permission.

Ward patients shall be discharged by the Superintendent or Resident Surgeon.

AMBULANCE SERVICE AT THE HAYMARKET SQUARE RELIEF STATION.

The ambulance service of the station shall be under the direct control of the Resident Surgeon, and shall coöperate with that of the hospital, with which it shall form one general system. Ambulances shall, in response to calls, be dispatched from the station or the hospital as the exigency may require. The utmost dispatch shall be exercised in the ambulance service, so far as is consistent with a regard for the welfare of the patient and the interest of the public.

Ambulances shall in general be sent from the station or the hospital at least upon a general alarm to all fires occurring in the city proper and in such further districts as may be determined upon.

An ambulance shall be held during the hours of the day in complete readiness to make immediate response to

calls, and shall be kept in condition to make prompt response to calls at any time of the night.

A house officer shall accompany the ambulance, shall direct its course and shall have direction of the care and treatment of the patient until received at his destination.

The foreman of the ambulance service at the hospital station shall visit and inspect the Ambulance Department of the station from time to time, but the immediate carrying out of directions shall be under the assistant foreman at the station.

AMBULANCE SERVICE AT THE EAST BOSTON RELIEF STATION.

The rules and methods prevailing in the Haymarket Square Relief Station ambulance service shall, so far as applicable, be effective in the East Boston Relief Station ambulance service.

SPECIAL RULES FOR THE GOVERNMENT OF THE CONVALESCENT HOME.

The department of the Boston City Hospital located on Dorchester avenue, in Dorchester, shall be known as the Convalescent Home, and shall receive such patients recovering from acute diseases as shall be transferred to it from the main hospital for treatment during convalescence.

The Superintendent of the Hospital shall, under the direction of the trustees, have the control and management of the Convalescent Home in the same manner as of other departments of the hospital.

The Superintendent shall appoint, subject to the approval of the trustees, a Matron, and shall employ, under their direction, such further assistants as may be necessary for the proper conduct and service of the home.

The Matron, under the direction of the Superintendent, shall have the immediate charge of the home and the control of all nurses and other employees and patients. She shall reside at the home.

VISITORS.

Friends may be permitted to visit patients daily between three and four o'clock in the afternoon. In all cases the trustees, Superintendent and Matron may exercise discretionary powers as to excluding or admitting visitors.

Visitors shall leave the home and grounds at the expiration of the visiting hour, and shall visit no part of the home or grounds other than the reception room, except by permission from the proper authority.

No person shall give any article of food or drink to a patient unless by permission of the Matron.

